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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 seconds
(without alignments)
669,524 Million cell updates/sec

Title: US-09-832-659A-59
Perfect score: 866
Sequence: 1 MSYNLGLFQSSNFQCKL.....RAELIANFARLTGYLRN 166

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2.6/prodata/2/aa/5A-COMB.pdp:*
2: /cgn2.6/prodata/2/aa/5B-COMB.pdp:*
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6: /cgn2.6/prodata/2/aa/backfiles.pdp:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	832	96.1	166	US-09-397-992A-7	Sequence 7, Appli
2	832	96.1	166	US-09-569-722A-1	Sequence 1, Appli
3	832	96.1	166	US-09-648-589A-2	Sequence 2, Appli
4	832	96.1	166	US-09-971-843-7	Sequence 7, Appli
5	832	96.1	166	US-09-403-532E-1	Sequence 1, Appli
6	832	96.1	166	US-09-462-941-5	Sequence 5, Appli
7	832	96.1	166	5514567-4	Patent No. 5514567
8	832	96.1	187	US-09-206-903A-9	Sequence 9, Appli
9	832	96.1	187	US-08-406-030A-30	Sequence 30, Appli
10	832	96.1	187	US-09-202-122-9	Sequence 9, Appli
11	832	96.1	187	US-09-208-935-7	Sequence 7, Appli
12	832	96.1	187	US-09-208-936-7	Sequence 7, Appli
13	832	96.1	187	US-09-487-792-4	Sequence 4, Appli
14	832	96.1	187	US-09-908-594-4	Sequence 4, Appli
15	832	96.1	187	US-09-919-622A-9	Sequence 9, Appli
16	832	96.1	187	5514567-1	Patent No. 5514567
17	832	96.1	415	US-09-215-212-14	Sequence 14, Appli
18	830	95.8	166	US-08-477-310A-1	Sequence 1, Appli
19	827	95.5	166	US-08-213-448-1	Sequence 1, Appli
20	827	95.5	166	US-08-912-768-1	Sequence 4, Appli
21	827	95.5	166	US-09-569-722A-4	Sequence 4, Appli
22	827	95.5	166	US-09-569-722A-18	Sequence 18, Appli
23	827	95.5	166	PCT-US95-03206-1	Sequence 1, Appli
24	827	95.5	187	US-08-912-768-3	Sequence 3, Appli
25	825	95.3	166	US-09-487-792-21	Sequence 21, Appli
26	825	95.3	166	US-09-908-594-21	Sequence 21, Appli
27	824	95.2	187	US-08-026-758-22	Sequence 22, Appli

ALIGNMENTS

RESULT 1

US-09-397-992A-7
; Sequence 7, Application US/09397992A
; Patent No. 6329175
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46
; CURRENT APPLICATION NUMBER: US/09/397,992A
; PRIOR FILING DATE: 1999-09-16
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-397-992A-7

Query Match 96.1%; Score 832; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.9e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLGLFQSSNFQCKLWQLNGLEYCLKDRMFDIPEEIKOLQOFKEDAAITY 60
Db 1 MSYNLGLFQSSNFQCKLWQLNGLEYCLKDRMFDIPEEIKOLQOFKEDAAITY 60

QY 61 EMLQNFIFRQDSSTGNETIVENLIANYHINHLKTVLEEKLEKEDFTFGALMSSL 120
Db 61 EMLQNFIFRQDSSTGNETIVENLIANYHINHLKTVLEEKLEKEDFTFGALMSSL 120

QY 121 HLKRYGILHYLKAKEYSHCAWTIVAEILANFARLTGYLRN 166
Db 121 HLKRYGILHYLKAKEYSHCAWTIVAEILANFARLTGYLRN 166

RESULT 2

US-09-569-722A-1
; Sequence 1, Application US/09569722A
; Patent No. 6514729
; GENERAL INFORMATION:
; APPLICANT: Bentzien, Joerg M

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; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY
; FILE REFERENCE: A-68059-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/569,722A
; CURRENT FILING DATE: 2000-05-11
; PRIOR APPLICATION NUMBER: US 60/133,785
; PRIOR FILING DATE: 1999-05-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-569-722A-1

Query Match          96.1%; Score 832; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.9e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRWNFDIPEIKOLOQFOKEDAAITIIY 60
DB 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRWNFDIPEIKOLOQFOKEDAAITIIY 60

QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAILANFARIARLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAILANFARIARLTGYLRN 166

RESULT 3
US-09-648-569A-2
; Sequence 2, Application US/09648569A
; Patent No. 6531122
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us810
; CURRENT APPLICATION NUMBER: US/09/648,569A
; CURRENT FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-648-569A-2

Query Match          96.1%; Score 832; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.9e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRWNFDIPEIKOLOQFOKEDAAITIIY 60
DB 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRWNFDIPEIKOLOQFOKEDAAITIIY 60

QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAILANFARIARLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAILANFARIARLTGYLRN 166

RESULT 4
US-09-971-843-7
; Sequence 7, Application US/09971843
; Patent No. 6544505
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
```

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; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match          96.1%; Score 832; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.9e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRWNFDIPEIKOLOQFOKEDAAITIIY 60
DB 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRWNFDIPEIKOLOQFOKEDAAITIIY 60

QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAILANFARIARLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAILANFARIARLTGYLRN 166

RESULT 5
US-09-403-532E-1
; Sequence 1, Application US/09403532E
; Patent No. 6572853
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewandter
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Maschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/09/403,532E
; CURRENT FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-403-532E-1

Query Match          96.1%; Score 832; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.9e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRWNFDIPEIKOLOQFOKEDAAITIIY 60
DB 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRWNFDIPEIKOLOQFOKEDAAITIIY 60
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QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTVIRAEILANFARIARTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTVIRAEILANFARIARTGYLRN 166

RESULT 6
US-09-462-941-5
; Sequence 5, Application US/09462941
; Patent No. 6608183
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/09/462,941
; CURRENT FILING DATE: 2000-01-14
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-462-941-5

Query Match 96.1%; Score 832; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.9e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGLFQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
Db 1 MSYNLLGLFQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTVIRAEILANFARIARTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTVIRAEILANFARIARTGYLRN 166

RESULT 7
5514567-4
; Patent No. 5514567
; APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI,
; TADATSUGU
; TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID
; NUMBER OF SEQUENCES: 5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/400,179
; FILING DATE: 04-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 389,922
; FILING DATE: 18-JUN-1982
; APPLICATION NUMBER: 201,359
; FILING DATE: 27-OCT-1980
; SEQ ID NO: 4
; LENGTH: 166
5514567-4

Query Match 96.1%; Score 832; DB 6; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.9e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGLFQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
Db 1 MSYNLLGLFQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
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QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTVIRAEILANFARIARTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTVIRAEILANFARIARTGYLRN 166

RESULT 8
US-09-206-903A-9
; Sequence 9, Application US/09206903A
; Patent No. 6200780
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul J.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: P1224-2R1
; CURRENT APPLICATION NUMBER: US/09/206,903A
; CURRENT FILING DATE: 1998-12-07
; PRIOR APPLICATION NUMBER: US 60/106,463
; PRIOR FILING DATE: 1998-10-30
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-903A-9

Query Match 96.1%; Score 832; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 2.3e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGLFQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
Db 22 MSYNLLGLFQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 81
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIPRODSSSTGNETIVENLLANYHQNHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTVIRAEILANFARIARTGYLRN 166
Db 142 HLKRYVGRILHYLKAKEYSHCAWTVIRAEILANFARIARTGYLRN 187

RESULT 9
US-08-406-030A-30
; Sequence 30, Application US/08406030A
; Patent No. 6270989
; GENERAL INFORMATION:
; APPLICANT: Treco, Douglas A.
; APPLICANT: Heartlein, Michael W.
; APPLICANT: Hauge, Brian M.
; APPLICANT: Selden, Richard F.
; TITLE OF INVENTION: Protein Production and Delivery
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
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; APPLICATION NUMBER: US/08/406,030A
; FILING DATE: 17-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/243,391
; FILING DATE: 13-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/985,586
; FILING DATE: 03-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/911,533
; FILING DATE: 10-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,840
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,188
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/11704
; FILING DATE: 02-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/09627
; FILING DATE: 05-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: TKT95-01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 187 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-406-030A-30

Query Match          96.1%; Score 832; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 2.3e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLVYCLKDRWNFDIPEIKOLOQFOKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQNGRLVYCLKDRWNFDIPEIKOLOQFOKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKESYSHCAWTVRAEILANFARIALTGYLRN 166
DB 142 HLKRYVGRILHYLKAKESYSHCAWTVRAEILANFARIALTGYLRN 187

RESULT 10
US-09-202-122-9
; Sequence 9, Application US/09202122
; Patent No. 6299869
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2 (filed)
; CURRENT APPLICATION NUMBER: US/09/202,122
; CURRENT FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9

; APPLICATION NUMBER: US/08/406,030A
; FILING DATE: 17-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/243,391
; FILING DATE: 13-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/985,586
; FILING DATE: 03-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/911,533
; FILING DATE: 10-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,840
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,188
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/11704
; FILING DATE: 02-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/09627
; FILING DATE: 05-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: TKT95-01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 187 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-406-030A-30

Query Match          96.1%; Score 832; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 2.3e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLVYCLKDRWNFDIPEIKOLOQFOKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQNGRLVYCLKDRWNFDIPEIKOLOQFOKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKESYSHCAWTVRAEILANFARIALTGYLRN 166
DB 142 HLKRYVGRILHYLKAKESYSHCAWTVRAEILANFARIALTGYLRN 187

RESULT 11
US-09-206-935-7
; Sequence 7, Application US/09206935
; Patent No. 6299877
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: 11669.50US05
; CURRENT APPLICATION NUMBER: US/09/206,935
; CURRENT FILING DATE: 1998-12-07
; EARLIER APPLICATION NUMBER: 60/084,045
; EARLIER FILING DATE: 1998-05-04
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-206-935-7

Query Match          96.1%; Score 832; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 2.3e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLVYCLKDRWNFDIPEIKOLOQFOKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQNGRLVYCLKDRWNFDIPEIKOLOQFOKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKESYSHCAWTVRAEILANFARIALTGYLRN 166
DB 142 HLKRYVGRILHYLKAKESYSHCAWTVRAEILANFARIALTGYLRN 187

RESULT 12
US-09-206-936-7
; Sequence 7, Application US/09206936A
; Patent No. 6300475
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: No. 6300475el Inteferon
; FILE REFERENCE: P1224R1
; CURRENT APPLICATION NUMBER: US/09/206,936A
; CURRENT FILING DATE: 1998-12-07
; SEQ ID NO 9
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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-936-7

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Best Local Similarity 96.4%; Pred. No. 2.3e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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Db 22 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 81

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGLMSSL 120
Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGLMSSL 141

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRAEILANFARIALTGYLRN 166
Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRAEILANFARIALTGYLRN 187

RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P1
; CURRENT APPLICATION NUMBER: US/09/487,792
; CURRENT FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-487-792-4

Query Match          96.1%; Score 832; DB 4; Length 187;
Best Local Similarity 96.4%; Pred. No. 2.3e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 60
Db 22 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 81

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGLMSSL 120
Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGLMSSL 141

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRAEILANFARIALTGYLRN 166
Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRAEILANFARIALTGYLRN 187

RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lafleur, et al.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2
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; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/292,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-908-594-4

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Best Local Similarity 96.4%; Pred. No. 2.3e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 60
Db 22 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 81

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGLMSSL 120
Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGLMSSL 141

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRAEILANFARIALTGYLRN 166
Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRAEILANFARIALTGYLRN 187

RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian Paul
; APPLICANT: Godowski,
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-622A-9

Query Match          96.1%; Score 832; DB 4; Length 187;
Best Local Similarity 96.4%; Pred. No. 2.3e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 60
Db 22 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 81
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Search completed: May 19, 2004, 14:26:15
Job time : 13.8 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds
(without alignments)
1391.307 Million cell updates/sec

Title: US-09-832-659A-59

Perfect score: 866

Sequence: 1 MSYNLLGFLQSSNFQCKL.....RASILANFARIALTGYLGN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

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Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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6: /cgn2_6/ptodata/2/pubaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/2/pubaa/US08_NEW_PUB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	845	97.6	166	10	US-09-832-658-24
2	832	96.1	166	10	US-09-832-658-24
3	832	96.1	166	10	US-09-832-658-24
4	832	96.1	166	10	US-09-832-658-24
5	832	96.1	166	10	US-09-832-658-24
6	832	96.1	166	10	US-09-832-658-24
7	832	96.1	166	10	US-09-832-658-24
8	832	96.1	166	10	US-09-832-658-24
9	832	96.1	166	10	US-09-832-658-24
10	832	96.1	166	10	US-09-832-658-24
11	832	96.1	166	10	US-09-832-658-24
12	832	96.1	166	10	US-09-832-658-24
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14	832	96.1	166	10	US-09-832-658-24
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16 832 96.1 183 10 US-09-832-658-24 Sequence 2, Appli
17 832 96.1 186 12 US-10-449-831A-146 Sequence 146, App
18 832 96.1 187 9 US-09-788-552-1 Sequence 1, Appli
19 832 96.1 187 9 US-09-919-622A-9 Sequence 9, Appli
20 832 96.1 187 12 US-10-411-037-6 Sequence 6, Appli
21 832 96.1 187 12 US-09-881-050-17 Sequence 17, Appli
22 832 96.1 187 12 US-10-411-026-6 Sequence 6, Appli
23 832 96.1 187 13 US-10-004-201-2 Sequence 2, Appli
24 832 96.1 187 14 US-10-096-373-2 Sequence 2, Appli
25 832 96.1 187 14 US-10-418-038-9 Sequence 9, Appli
26 832 96.1 187 16 US-10-410-962-6 Sequence 6, Appli
27 832 96.1 187 16 US-10-411-049-6 Sequence 6, Appli
28 832 96.1 199 12 US-03-766-320B-11 Sequence 11, Appli
29 832 96.1 234 12 US-10-449-831A-192 Sequence 192, App
30 832 96.1 399 9 US-09-832-659-2 Sequence 2, Appli
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32 830 95.8 166 12 US-10-010-448-1 Sequence 1, Appli
33 829 95.7 187 9 US-09-927-850-7 Sequence 7, Appli
34 825 95.3 166 9 US-09-788-552-2 Sequence 42, Appli
35 823 95.0 418 9 US-09-832-659-42 Sequence 44, Appli
36 823 95.0 423 9 US-09-832-659-44 Sequence 2, Appli
37 822 94.9 166 14 US-10-246-932-2 Sequence 1, Appli
38 820 94.7 166 12 US-10-168-956A-1 Sequence 2, Appli
39 820 94.7 166 12 US-10-035-420-2 Sequence 2, Appli
40 820 94.7 166 12 US-10-010-448-2 Sequence 2, Appli
41 792 91.5 166 14 US-10-449-456-23 Sequence 23, Appli
42 792 91.5 166 16 US-10-448-667-23 Sequence 23, Appli
43 792 91.5 187 9 US-09-725-433-4 Sequence 4, Appli
44 792 91.5 187 14 US-10-284-740-12 Sequence 12, Appli
45 787 90.9 166 14 US-10-084-706-56 Sequence 56, Appli

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ALIGNMENTS

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RESULT 1
US-09-832-658-24
; Sequence 24, Application US/09832658
; Publication No. US20030021765A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; APPLICANT: Pepinsky, Blake
; APPLICANT: Runkel, Laura
; APPLICANT: Brickelmaier, Margot
; APPLICANT: Whitty, Adrian
; APPLICANT: Hochman, Paula
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a
; TITLE OF INVENTION: and Uses
; FILE REFERENCE: A065PCT
; CURRENT APPLICATION NUMBER: US/09/832,658
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/104,572
; PRIOR FILING DATE: 1998-10-16
; PRIOR APPLICATION NUMBER: 60/120,161
; PRIOR FILING DATE: 1999-02-16
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 166
; TYPE: PRT
; ORGANISM: human
US-09-832-658-24

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Query Match 97.6%; Score 845; DB 10; Length 166;
Best Local Similarity 97.6%; Pred. No. 2.8e-79;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Qy 1 MSYNLLGFLQSSNFQCKLWQLNGRLEYCLKDRMNFDPDEEIKQLOQFOKEDAAITY 60
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Qy 61 EMLQNIFFRODSSSTGWNETIVENLLANYVHQNHKLTVLEEKLEKEDFTRGALMSL 120

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Db 61 EMLQNIFAIFRQDSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kinsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46DI
; CURRENT APPLICATION NUMBER: US/09/971.843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

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Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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QY 61 EMLQNIFAIFRQDSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRQDSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Subhidas K
; APPLICANT: Shinkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT

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; ORGANISM: Homo sapiens
US-09-732-436-16

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Best Local Similarity 96.1%; Score 832; DB 12; Length 166;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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Db 61 EMLQNIFAIFRQDSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorianne
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PFI8399.002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

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Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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Db 61 EMLQNIFAIFRQDSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTRUP, Joern
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30

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; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

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Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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DB 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQFQKEDAAALTYI 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166

RESULT 6
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; PRIOR FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

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DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166

RESULT 7
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US2003016865A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; PRIOR FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 6.1e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166

RESULT 8
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jørn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalsg+rd
; APPLICANT: ANDERSEN, Kim Vilbourn
; APPLICANT: BORN, Claus
; APPLICANT: Maxisen Aps
; APPLICANT: Maxisen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
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; NAME/KEY: CHAIN
; LOCATION: (1)....(166)
; OTHER INFORMATION: h1FNB mature sequence
US-10-084-706-2

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 6.1e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEEIKQLQOQFQKEDAAITY 60
QY 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQNHLKTVLEBKLEKEDPTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQNHLKTVLEBKLEKEDPTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166

RESULT 9
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US20030171284A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 6.1e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEEIKQLQOQFQKEDAAITY 60
QY 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQNHLKTVLEBKLEKEDPTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQNHLKTVLEBKLEKEDPTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166

RESULT 10
US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2002-12-19
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; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 6.1e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEEIKQLQOQFQKEDAAITY 60
QY 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQNHLKTVLEBKLEKEDPTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQNHLKTVLEBKLEKEDPTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166

RESULT 11
US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 6.1e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEEIKQLQOQFQKEDAAITY 60
QY 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQNHLKTVLEBKLEKEDPTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQNHLKTVLEBKLEKEDPTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166

RESULT 12
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US2003018686A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
```

```
; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-449-456-1

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 6.1e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQFQKEDAAITTY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQFQKEDAAITTY 60

QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTVRAEILANFARIARTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTVRAEILANFARIARTGYLRN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalesg+rd
; APPLICANT: ANDERSEN, Kim Vilbourn
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/609,296
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: hIFNB mature sequence
US-10-609-296-2

Query Match          96.1%; Score 832; DB 15; Length 166;
Best Local Similarity 96.4%; Pred. No. 6.1e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQFQKEDAAITTY 60

QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTVRAEILANFARIARTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTVRAEILANFARIARTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-448-667-1

Query Match          96.1%; Score 832; DB 16; Length 166;
Best Local Similarity 96.4%; Pred. No. 6.1e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQFQKEDAAITTY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQFQKEDAAITTY 60

QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTVRAEILANFARIARTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTVRAEILANFARIARTGYLRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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; Patent No. US20020155547A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses
; FILE REFERENCE: A064PCTSEQ
; CURRENT APPLICATION NUMBER: US/09/832,659
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/120,237
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/104,491
; PRIOR FILING DATE: 1998-10-16
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 183
; TYPE: PRT
; ORGANISM: murine
; US-09-832-659-4

Query Match 96.1%; Score 832; DB 9; Length 183;
Best Local Similarity 96.4%; Pred. No. 7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
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DB 18 MSYNLLGFLORSNFCCKLLWQLNGRLCYCLKORMNFDIPEEIKQLQOQFOKEDALTIY 77
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 78 EMLQNIFAIFRODSSSTGNETIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 137
QY 121 HLKRYYGRIHLHYLKAKESHCAWTIVRAEILANFARIARLTGYLRN 166
DB 138 HLKRYYGRIHLHYLKAKESHCAWTIVRVEILRNFFYNRLTGYLNRN 183

Search completed: May 19, 2004, 15:20:03
Job time : 34.2 secs

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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds
(without alignments)
1391.307 Million cell updates/sec

Title: US-09-832-659A-58
Perfect score: 868
Sequence: 1 MSYNLLGLQSSNFQCKL.....RVEILNFYINRLTGYLRN 166

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Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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- 2: /cgn2_6/ptodata/2/pubaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubaa/US07_NEW_PUB.pep.*
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- 8: /cgn2_6/ptodata/2/pubaa/US08_PUBCOMB.pep.*
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- 10: /cgn2_6/ptodata/2/pubaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubaa/US09C_PUBCOMB.pep.*
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- 17: /cgn2_6/ptodata/2/pubaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	859	99.0	166	10	US-09-832-658-24
2	846	97.5	166	10	US-09-971-843-7
3	846	97.5	166	12	US-09-732-436-16
4	846	97.5	166	14	US-10-246-932-1
5	846	97.5	166	14	US-10-186-962-1
6	846	97.5	166	14	US-10-400-377-5
7	846	97.5	166	14	US-10-400-708-5
8	846	97.5	166	14	US-10-084-706-2
9	846	97.5	166	14	US-10-298-148-5
10	846	97.5	166	14	US-10-325-720-2
11	846	97.5	166	14	US-10-351-189-2
12	846	97.5	166	14	US-10-449-456-1
13	846	97.5	166	15	US-10-609-296-2
14	846	97.5	166	16	US-10-448-667-1
15	846	97.5	183	9	US-09-832-659-4

16	846	97.5	183	10	US-09-832-658-2
17	846	97.5	186	12	US-10-449-831A-146
18	846	97.5	187	9	US-09-788-552-1
19	846	97.5	187	9	US-09-919-622A-9
20	846	97.5	187	12	US-10-411-037-6
21	846	97.5	187	12	US-09-881-050-17
22	846	97.5	187	12	US-10-411-026-6
23	846	97.5	187	13	US-10-004-201-2
24	846	97.5	187	14	US-10-096-373-2
25	846	97.5	187	14	US-10-418-038-9
26	846	97.5	187	16	US-10-410-962-6
27	846	97.5	187	16	US-10-411-049-6
28	846	97.5	199	12	US-09-766-920B-11
29	846	97.5	234	12	US-10-449-831A-192
30	846	97.5	399	9	US-09-832-659-2
31	844	97.2	166	12	US-10-035-420-1
32	844	97.2	166	12	US-10-010-448-1
33	843	97.1	187	9	US-09-927-850-7
34	839	96.7	166	9	US-09-788-552-2
35	837	96.4	418	9	US-09-832-659-42
36	837	96.4	423	9	US-09-832-659-44
37	836	96.3	166	14	US-10-246-932-2
38	835	96.2	166	15	US-10-168-956A-1
39	834	96.1	166	12	US-10-035-420-2
40	834	96.1	166	12	US-10-010-448-2
41	812	93.5	166	10	US-09-832-658-28
42	806	92.9	166	14	US-10-449-456-23
43	806	92.9	166	16	US-10-448-667-23
44	806	92.9	187	9	US-09-725-433-4
45	806	92.9	187	14	US-10-284-740-12

ALIGNMENTS

RESULT 1
US-09-832-658-24
; Sequence 24, Application US/09832658
; Publication NO. US20030021765A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; APPLICANT: Pepinsky, Blake
; APPLICANT: Runkel, Laura
; APPLICANT: Brickelmaier, Margot
; APPLICANT: Whitty, Adrian
; APPLICANT: Hochman, Paula
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a
; FILE REFERENCE: A065PCT
; CURRENT APPLICATION NUMBER: US/09/832,658
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/104,572
; PRIOR FILING DATE: 1998-10-16
; PRIOR APPLICATION NUMBER: 60/120,161
; PRIOR FILING DATE: 1999-02-16
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 166
; TYPE: PRT
; ORGANISM: human
US-09-832-658-24

Query Match 99.0%; Score 859; DB 10; Length 166;
Best Local Similarity 98.8%; Pred. No. 2.6e-81;
Matches 164; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 1 MSYNLLGLQSSNFQCKLLWQLNGRLLEYCLKDRMFPDIPPEIKQLQFQKEDAAITY 60
Db 1 MSYNLLGLQSSNFQCKLLWQLNGRLLEYCLKDRMFPDIPPEIKQLQFQKEDAAITY 60
QY 61 EMLQNFIAIFQDSSSTGNETIVENLLANYHOHLKTVLEKLEKEDFTGALMSSL 120

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Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILRNFYINRLTGYLRN 166
    |||||
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kingsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match 97.5%; Score 846; DB 10; Length 166;
Best Local Similarity 97.6%; Pred. No. 6e-80;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQRSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITTY 60
Db 1 MSYNLLGFLQRSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITTY 60

Qy 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

Qy 121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Sushirdas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT
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; ORGANISM: Homo sapiens
US-09-732-436-16

Query Match 97.5%; Score 846; DB 12; Length 166;
Best Local Similarity 97.6%; Pred. No. 6e-80;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQRSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITTY 60
Db 1 MSYNLLGFLQRSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITTY 60

Qy 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

Qy 121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorianne
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PFI9399.002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match 97.5%; Score 846; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 6e-80;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQRSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITTY 60
Db 1 MSYNLLGFLQRSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITTY 60

Qy 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

Qy 121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTRUP, Joern
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30
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; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match
Best Local Similarity 97.5%; Score 846; DB 14; Length 166;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60

QY 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRIHLHYLKAKEYAACAWTIVRVEILRNRYINRLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYINRLTGYLRN 166

RESULT 6
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/10/400,377
; PRIOR FILING DATE: 2000-01-14
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match
Best Local Similarity 97.5%; Score 846; DB 14; Length 166;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60

QY 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRIHLHYLKAKEYAACAWTIVRVEILRNRYINRLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYINRLTGYLRN 166

RESULT 7
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US20030168663A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/10/400,708
; PRIOR FILING DATE: 2000-01-14
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-708-5

Query Match
Best Local Similarity 97.5%; Score 846; DB 14; Length 166;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60

QY 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRIHLHYLKAKEYAACAWTIVRVEILRNRYINRLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYINRLTGYLRN 166

RESULT 8
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalesg-rd
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORN, Claus
; APPLICANT: Maxigen Aps
; APPLICANT: Maxigen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
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; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: h1FNb mature sequence
US-10-084-706-2

Query Match      97.5%; Score 846; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 6e-80;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAALTY 60
    |||
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAALTY 60
    |||

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
    |||
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
    |||

QY 121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILNRYINRLTGYLRLN 166
    |||
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRLN 166
    |||

RESULT 9
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US20030171284A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; CURRENT FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match      97.5%; Score 846; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 6e-80;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAALTY 60
    |||
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAALTY 60
    |||

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
    |||
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
    |||

QY 121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILNRYINRLTGYLRLN 166
    |||
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRLN 166
    |||

RESULT 10
US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2002-12-19
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; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match      97.5%; Score 846; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 6e-80;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAALTY 60
    |||
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAALTY 60
    |||

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
    |||
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
    |||

QY 121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILNRYINRLTGYLRLN 166
    |||
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRLN 166
    |||

RESULT 11
US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match      97.5%; Score 846; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 6e-80;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAALTY 60
    |||
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAALTY 60
    |||

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
    |||
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
    |||

QY 121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILNRYINRLTGYLRLN 166
    |||
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRLN 166
    |||

RESULT 12
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US20030186886A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
```

```
; APPLICANT: Waschutzta, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-449-456-1

Query Match          97.5%; Score 846; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 6e-80;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILRNFRINLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINLTGYLRN 166
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RESULT 13

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US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Joen
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalgard
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORN, Claus
; APPLICANT: Maxysen Aps
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228ue410
; CURRENT APPLICATION NUMBER: US/10/609,296
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: hIFNB mature sequence
US-10-609-296-2

Query Match          97.5%; Score 846; DB 15; Length 166;
Best Local Similarity 97.6%; Pred. No. 6e-80;
Matches 162; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILRNFRINLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINLTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Preseus, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutzta, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-448-667-1

Query Match          97.5%; Score 846; DB 16; Length 166;
Best Local Similarity 97.6%; Pred. No. 6e-80;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILRNFRINLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINLTGYLRN 166
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RESULT 15

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US-09-832-659-4
; Sequence 4, Application US/09832659
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; Patent No. US2002015547A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses
; FILE REFERENCE: A064PCTSEQ
; CURRENT APPLICATION NUMBER: US/09/832,659
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/120,237
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/104,491
; PRIOR FILING DATE: 1998-10-16
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 183
; TYPE: PRT
; ORGANISM: murine
US-09-832-659-4

Query Match      97.5%; Score 846; DB 9; Length 183;
Best Local Similarity 97.6%; Pred. No. 6.8e-80;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY      1 MSYNLLGFLQSSNFCCQKLLWQLNGRLEYCLKDRMNFDPPEEKQLQQFOKEDAAITY 60
Db      18 MSYNLLGFLQSSNFCCQKLLWQLNGRLEYCLKDRMNFDPPEEKQLQQFOKEDAAITY 77

QY      61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db      78 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 137

QY      121 HLKRYVGRILHYLKAKKEYAACAWTIVRVEILLNFYRINRLTGYLEN 166
Db      138 HLKRYVGRILHYLKAKKEYSHCAWTIVRVEILLNFYRINRLTGYLEN 183
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Job time : 33.2 secs

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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 seconds
(without alignments)
669.524 Million cell updates/sec

Title: US-09-832-659a-58
Perfect score: 888
Sequence: 1 MSYNLLGFLORSNFQCKL.....RVBILRNFRINRLTGYLRN 166

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*
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4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	846	97.5	166	4	US-09-397-992A-7
2	846	97.5	166	4	US-09-569-722A-1
3	846	97.5	166	4	US-09-648-569A-2
4	846	97.5	166	4	US-09-971-843-7
5	846	97.5	166	4	US-09-403-532E-1
6	846	97.5	166	4	US-09-462-941-5
7	846	97.5	166	6	5514567-4
8	846	97.5	187	3	US-09-206-903A-9
9	846	97.5	187	3	US-09-406-030A-30
10	846	97.5	187	3	US-09-202-122-9
11	846	97.5	187	3	US-09-206-935-7
12	846	97.5	187	4	US-09-206-936-7
13	846	97.5	187	4	US-09-487-792-4
14	846	97.5	187	4	US-09-908-594-4
15	846	97.5	187	4	US-09-919-622A-9
16	846	97.5	187	6	5514567-1
17	846	97.5	415	4	US-09-215-212-14
18	846	97.2	166	2	US-08-477-310A-1
19	841	96.9	166	1	US-08-213-448-1
20	841	96.9	166	3	US-08-912-768-1
21	841	96.9	166	4	US-09-569-722A-4
22	841	96.9	166	4	US-09-569-722A-18
23	841	96.9	166	5	PCT-US95-03206-1
24	841	96.9	187	3	US-08-912-768-3
25	839	96.7	166	4	US-09-487-792-21
26	839	96.7	166	4	US-09-908-594-21
27	838	96.5	187	1	US-08-026-758-22

28 837 96.4 166 4 US-09-331-260-2 Sequence 2, Appli
29 836 96.3 166 4 US-09-569-722A-5 Sequence 5, Appli
30 829 95.5 187 6 5326859-1 Patent No. 5326859
31 827 95.3 166 4 US-09-569-722A-13 Sequence 13, Appli
32 827 95.3 166 4 US-09-569-722A-19 Sequence 19, Appli
33 822 94.7 166 4 US-09-569-722A-8 Sequence 8, Appli
34 822 94.7 166 4 US-09-569-722A-16 Sequence 16, Appli
35 820 94.5 166 4 US-09-569-722A-6 Sequence 6, Appli
36 819 94.4 166 4 US-09-569-722A-24 Sequence 24, Appli
37 817 94.1 166 4 US-09-569-722A-14 Sequence 14, Appli
38 816 94.0 166 4 US-09-569-722A-7 Sequence 7, Appli
39 816 94.0 166 4 US-09-569-722A-12 Sequence 12, Appli
40 816 94.0 166 4 US-09-569-722A-17 Sequence 17, Appli
41 815 93.9 166 4 US-09-569-722A-22 Sequence 22, Appli
42 814 93.8 166 4 US-09-569-722A-15 Sequence 15, Appli
43 811 93.4 166 4 US-09-569-722A-20 Sequence 20, Appli
44 810 93.3 166 4 US-09-569-722A-11 Sequence 11, Appli
45 809 93.2 166 4 US-09-569-722A-23 Sequence 23, Appli

ALIGNMENTS

RESULT 1
US-09-397-992A-7
; Sequence 7, Application US/09397992A
; Patent No. 6329175
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46
; CURRENT APPLICATION NUMBER: US/09/397,992A
; PRIOR FILING DATE: 1999-09-16
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-397-992A-7

Query Match 97.5%; Score 846; DB 4; Length 166;
Best Local Similarity 97.6%; Pred. No. 1.3e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLORSNFQCKLLQNLGRLEYCLKDRNFDPDEEIKOLOQFOKEDAAITY 60
DB 1 MSYNLLGFLORSNFQCKLLQNLGRLEYCLKDRNFDPDEEIKOLOQFOKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTFGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTFGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYAACWTIVRVEILNFRINRLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

RESULT 2
US-09-569-722A-1
; Sequence 1, Application US/09569722A
; Patent No. 6514729
; GENERAL INFORMATION:
; APPLICANT: Bentzien, Joerg M

```

; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY
; FILE REFERENCE: A-68059-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/569,722A
; CURRENT FILING DATE: 2000-05-11
; PRIOR APPLICATION NUMBER: US 60/133,785
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-569-722A-1

Query Match          97.5%; Score 846; DB 4; Length 166;
Best Local Similarity 97.6%; Pred. No. 1.3e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60

QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGGRILHYLKAEYAAACAWTIVRVEILNFRINRLTYGLN 166
DB 121 HLKRYGGRILHYLKAEYSHCAWTIVRVEILNFRINRLTYGLN 166

RESULT 3
US-09-648-569A-2
; Sequence 2, Application US/09648569A
; Patent No. 6531122
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202u810
; CURRENT APPLICATION NUMBER: US/09/648,569A
; CURRENT FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-648-569A-2

Query Match          97.5%; Score 846; DB 4; Length 166;
Best Local Similarity 97.6%; Pred. No. 1.3e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60

QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGGRILHYLKAEYAAACAWTIVRVEILNFRINRLTYGLN 166
DB 121 HLKRYGGRILHYLKAEYSHCAWTIVRVEILNFRINRLTYGLN 166

RESULT 4
US-09-971-843-7
; Sequence 7, Application US/09971843
; Patent No. 6544505
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.

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; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match          97.5%; Score 846; DB 4; Length 166;
Best Local Similarity 97.6%; Pred. No. 1.3e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60

QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGGRILHYLKAEYAAACAWTIVRVEILNFRINRLTYGLN 166
DB 121 HLKRYGGRILHYLKAEYSHCAWTIVRVEILNFRINRLTYGLN 166

RESULT 5
US-09-403-532E-1
; Sequence 1, Application US/09403532E
; Patent No. 6572853
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Maschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/09/403,532E
; CURRENT FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-403-532E-1

Query Match          97.5%; Score 846; DB 4; Length 166;
Best Local Similarity 97.6%; Pred. No. 1.3e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60

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QY 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYAACAWTIIVRVEILNRYFNRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 6

US-09-462-941-5
; Sequence 5, Application US/09462941
; Patent No. 6608183
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/09/462,941
; CURRENT FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-462-941-5

Query Match 97.5%; Score 846; DB 4; Length 166;
Best Local Similarity 97.6%; Pred. No. 1.3e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 60
QY 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYAACAWTIIVRVEILNRYFNRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 7

5514567-4
; Patent No. 5514567
; APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI,
; TADATSUGU
; TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID
; NUMBER OF SEQUENCES: 5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/400,179
; FILING DATE: 06-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 389,922
; FILING DATE: 18-JUN-1982
; APPLICATION NUMBER: 201,359
; FILING DATE: 27-OCT-1980
; SEQ ID NO: 4
; LENGTH: 166
5514567-4

Query Match 97.5%; Score 846; DB 6; Length 166;
Best Local Similarity 97.6%; Pred. No. 1.3e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 60

QY 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYAACAWTIIVRVEILNRYFNRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 8

US-09-206-903A-9
; Sequence 9, Application US/09206903A
; Patent No. 6200780
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul J.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: P1224-2R1
; CURRENT APPLICATION NUMBER: US/09/206,903A
; CURRENT FILING DATE: 1998-12-07
; PRIOR APPLICATION NUMBER: US 60/106,463
; PRIOR FILING DATE: 1998-10-30
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-903A-9

Query Match 97.5%; Score 846; DB 3; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.6e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 81
QY 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKEYAACAWTIIVRVEILNRYFNRLTGYLRN 166
DB 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 187

RESULT 9

US-08-406-030A-30
; Sequence 30, Application US/08406030A
; Patent No. 6270989
; GENERAL INFORMATION:
; APPLICANT: Treco, Douglas A.
; APPLICANT: Heartlein, Michael W.
; APPLICANT: Hauge, Brian M.
; APPLICANT: Seiden, Richard F
; TITLE OF INVENTION: Protein Production and Delivery
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: US/08/406,030A
; FILING DATE: 17-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/243,391
; FILING DATE: 13-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/985,586
; FILING DATE: 03-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/911,533
; FILING DATE: 10-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,840
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,188
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/11704
; FILING DATE: 02-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/09627
; FILING DATE: 05-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: TKT95-01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 187 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-406-030A-30

Query Match          97.5%; Score 846; DB 3; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.6e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKYAAACAWTIVRVEILRNFYINRLTGYLRN 166
DB 142 HLKRYVGRILHYLKAKYSHCAWTIVRVEILRNFYINRLTGYLRN 187

RESULT 10
US-09-202-122-9
; Sequence 9, Application US/09202122
; Patent No. 6299869
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2 (filed)
; CURRENT APPLICATION NUMBER: US/09/202,122
; CURRENT FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9

; APPLICATION NUMBER: US/08/406,030A
; FILING DATE: 17-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/243,391
; FILING DATE: 13-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/985,586
; FILING DATE: 03-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/911,533
; FILING DATE: 10-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,840
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,188
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/11704
; FILING DATE: 02-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/09627
; FILING DATE: 05-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: TKT95-01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 187 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-406-030A-30

Query Match          97.5%; Score 846; DB 3; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.6e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKYAAACAWTIVRVEILRNFYINRLTGYLRN 166
DB 142 HLKRYVGRILHYLKAKYSHCAWTIVRVEILRNFYINRLTGYLRN 187

RESULT 11
US-09-206-935-7
; Sequence 7, Application US/09206935
; Patent No. 6299877
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: 11669.50US05
; CURRENT APPLICATION NUMBER: US/09/206,935
; CURRENT FILING DATE: 1998-12-07
; EARLIER APPLICATION NUMBER: 60/084,045
; EARLIER FILING DATE: 1998-05-04
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-206-935-7

Query Match          97.5%; Score 846; DB 3; Length 187;
Best Local Similarity 97.8%; Pred. No. 1.6e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKYAAACAWTIVRVEILRNFYINRLTGYLRN 166
DB 142 HLKRYVGRILHYLKAKYSHCAWTIVRVEILRNFYINRLTGYLRN 187

RESULT 12
US-09-206-936-7
; Sequence 7, Application US/09206936A
; Patent No. 6300475
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: No. 6300475el Inteferon
; FILE REFERENCE: P1224R1
; CURRENT APPLICATION NUMBER: US/09/206,936A
; CURRENT FILING DATE: 1998-12-07
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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-936-7

Query Match          97.5%; Score 846; DB 4; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.6e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 81

QY 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 141

QY 121 HLKRYVGRILHYLKAKYAAACAWTIVRVEILRNFRINLTGYLRN 166
DB 142 HLKRYVGRILHYLKAKYSHCAWTIVRVEILRNFRINLTGYLRN 187

RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P1
; CURRENT APPLICATION NUMBER: US/09/487,792
; EARLIER FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-487-792-4

Query Match          97.5%; Score 846; DB 4; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.6e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 81

QY 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 141

QY 121 HLKRYVGRILHYLKAKYAAACAWTIVRVEILRNFRINLTGYLRN 166
DB 142 HLKRYVGRILHYLKAKYSHCAWTIVRVEILRNFRINLTGYLRN 187

RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lafleur, et al.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2
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; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/292,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-908-594-4

Query Match          97.5%; Score 846; DB 4; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.6e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 81

QY 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 141

QY 121 HLKRYVGRILHYLKAKYAAACAWTIVRVEILRNFRINLTGYLRN 166
DB 142 HLKRYVGRILHYLKAKYSHCAWTIVRVEILRNFRINLTGYLRN 187

RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-622A-9

Query Match          97.5%; Score 846; DB 4; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.6e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 81
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Db	82	EMLQNI	FAIFRODSSSTGWN	ETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL	141
Qy	121	HLKRY	GRILHYLKAKEYAACAW	TIVRVEILENFYRINRLTGYLEN	166
Db	142	HLKRY	GRILHYLKAKEYSHCAW	TIVRVEILENFYRINRLTGYLEN	187

Search completed: May 19, 2004, 14:26:14
Job time : 12.8 secs

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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 Seconds
(without alignments)
669,524 Million cell updates/sec

Title: US-09-832-659A-57
Perfect score: 870
Sequence: 1 MSYNLLGLQRSSNFQCKL.....RVEILRNFYRINLTGYLRN 166

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Score	Match Length	DB ID	Description
1	847	97.4	166 4	US-09-397-992A-7
2	847	97.4	166 4	US-09-569-722A-1
3	847	97.4	166 4	US-09-648-569A-2
4	847	97.4	166 4	US-09-971-843-7
5	847	97.4	166 4	US-09-403-532E-1
6	847	97.4	166 4	US-09-482-941-5
7	847	97.4	166 6	5514567-4
8	847	97.4	187 3	US-09-206-903A-9
9	847	97.4	187 3	US-08-406-030A-30
10	847	97.4	187 3	US-09-202-122-9
11	847	97.4	187 3	US-09-206-935-7
12	847	97.4	187 4	US-09-206-936-7
13	847	97.4	187 4	US-09-487-792-4
14	847	97.4	187 4	US-09-908-594-4
15	847	97.4	187 4	US-09-919-622A-9
16	847	97.4	187 6	5514567-1
17	847	97.4	415 4	US-09-215-212-14
18	845	97.1	166 2	US-08-477-310A-1
19	842	96.8	166 1	US-08-213-448-1
20	842	96.8	166 3	US-08-912-768-1
21	842	96.8	166 4	US-09-569-722A-4
22	842	96.8	166 4	US-09-569-722A-18
23	842	96.8	166 5	FCT-US95-03206-1
24	842	96.8	187 3	US-08-912-768-3
25	840	96.6	166 4	US-09-487-792-21
26	840	96.6	166 4	US-09-908-594-21
27	839	96.4	187 1	US-08-026-758-22

ALIGNMENTS

RESULT 1
US-09-397-992A-7
; Sequence 7, Application US/09397992A
; Patent No. 6329175
; GENERAL INFORMATION:

; APPLICANT: Conklin, Darrell
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46
; CURRENT APPLICATION NUMBER: US/09/397,992A
; PRIOR FILING DATE: 1999-09-16
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-397-992A-7

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Best Local Similarity 97.6%; Pred. No. 1.4e-84; Indels 0; Gaps 0;
Matches 162; Conservative 0; Mismatches 4;

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DB	1	MSYNLLGLQRSSNFQCKLWQLNGLRLEYCLKDRMNFDPFEEIKLQLOQFOKEDAAITY	60
QY	61	EMLQNFIFAIFQDSSSTGWNTEIVENLLANYHQINHLKTVLEBKLEKEDFTRGLMSSL	120
DB	61	EMLQNFIFAIFQDSSSTGWNTEIVENLLANYHQINHLKTVLEBKLEKEDFTRGLMSSL	120
QY	121	HLKRYGYRILHYLKAAYSHCAWTVRVEILRNFYRINLTGYLRN	166
DB	121	HLKRYGYRILHYLKAAYSHCAWTVRVEILRNFYRINLTGYLRN	166

RESULT 2
US-09-569-722A-1
; Sequence 1, Application US/09569722A
; Patent No. 6514729
; GENERAL INFORMATION:
; APPLICANT: Bentzien, Joerg M

; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY
; FILE REFERENCE: A-8059-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/569,722A
; CURRENT FILING DATE: 2000-03-11
; PRIOR APPLICATION NUMBER: US 60/133,785
; PRIOR FILING DATE: 1999-05-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-569-722A-1

Query Match 97.4%; Score 847; DB 4; Length 166;
Best Local Similarity 97.6%; Pred. No. 1.4e-84;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYINRLTGYN 166
DB 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYINRLTGYN 166

RESULT 3

US-09-648-569A-2
; Sequence 2, Application US/09648569A
; Patent No. 6531122
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxigen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202u810
; CURRENT APPLICATION NUMBER: US/09/648,569A
; CURRENT FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-648-569A-2

Query Match 97.4%; Score 847; DB 4; Length 166;
Best Local Similarity 97.6%; Pred. No. 1.4e-84;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
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DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYINRLTGYN 166
DB 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYINRLTGYN 166

RESULT 4

US-09-971-843-7
; Sequence 7, Application US/09971843
; Patent No. 6544505
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.

; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindevogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-03-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match 97.4%; Score 847; DB 4; Length 166;
Best Local Similarity 97.6%; Pred. No. 1.4e-84;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYINRLTGYN 166
DB 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYINRLTGYN 166

RESULT 5

US-09-403-532E-1
; Sequence 1, Application US/09403532E
; Patent No. 6572853
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutzka, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/09/403,532E
; CURRENT FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-403-532E-1

Query Match 97.4%; Score 847; DB 4; Length 166;
Best Local Similarity 97.6%; Pred. No. 1.4e-84;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAAYSHCAWTIVRVEILNRYFIRNLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAAYSHCAWTIVRVEILNRYFIRNLTGYLRN 166

RESULT 6

US-09-462-941-5

; Sequence 5, Application US/09462941

; Patent No. 6608183

; GENERAL INFORMATION:

; APPLICANT: Cox III, George N

; APPLICANT: Bolger Biotechnology, Inc.

; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins

; FILE REFERENCE: 4152-1-PUS

; CURRENT APPLICATION NUMBER: US/09/462,941

; CURRENT FILING DATE: 2000-01-14

; PRIOR APPLICATION NUMBER: 60/052,516

; PRIOR FILING DATE: 1997-07-14

; NUMBER OF SEQ ID NOS: 41

; SOFTWARE: Patent in Ver. 2.0

; SEQ ID NO 5

; LENGTH: 166

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-462-941-5

Query Match 97.4%; Score 847; DB 4; Length 166;
Best Local Similarity 97.6%; Pred. No. 1.4e-84;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKRMNFDIPEEIKQIQFQKEDAAITY 60

DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKRMNFDIPEEIKQIQFQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRIHLHYLKAAYSHCAWTIVRVEILNRYFIRNLTGYLRN 166

DB 121 HLKRYGRIHLHYLKAAYSHCAWTIVRVEILNRYFIRNLTGYLRN 166

RESULT 7

5514567-4

; Patent No. 5514567

; APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI,

; TADATSUGU

; TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID

; NUMBER OF SEQUENCES: 5

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/400,179

; FILING DATE: 06-MAR-1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 389,922

; FILING DATE: 18-JUN-1982

; APPLICATION NUMBER: 201,359

; FILING DATE: 27-OCT-1980

; SEQ ID NO:4;

; LENGTH: 166

5514567-4

Query Match 97.4%; Score 847; DB 6; Length 166;
Best Local Similarity 97.6%; Pred. No. 1.4e-84;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKRMNFDIPEEIKQIQFQKEDAAITY 60

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/ APPLICATION NUMBER: US/08/406,030A
/ FILING DATE: 17-MAR-1995
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/243,391
/ FILING DATE: 13-MAY-1994
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/985,586
/ FILING DATE: 03-DEC-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/911,533
/ FILING DATE: 10-JUL-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/787,840
/ FILING DATE: 05-NOV-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/789,188
/ FILING DATE: 05-NOV-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: PCT/US93/11704
/ FILING DATE: 02-DEC-1993
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: PCT/US92/09627
/ FILING DATE: 05-NOV-1992
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Granahan, Patricia
/ REGISTRATION NUMBER: 32,227
/ REFERENCE/DOCKET NUMBER: TKT95-01
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 861-6240
/ TELEFAX: (617) 861-9540
/ INFORMATION FOR SEQ ID NO: 30:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 187 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-406-030A-30

Query Match 97.4%; Score 847; DB 3; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.7e-84;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLMQLNGRLVYCLKDRNFDPPEIKLOQFOKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLMQLNGRLVYCLKDRNFDPPEIKLOQFOKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILRNFINRLTGYLRN 166
Db 142 HLKRYVGRILHYLKAAYSHCAWTIVRVEILRNFINRLTGYLRN 187

RESULT 10
US-09-202-122-9
/ Sequence 9, Application US/09202122
/ Patent No. 6299869
/ GENERAL INFORMATION:
/ APPLICANT: Chen, Jian
/ APPLICANT: Godowski, Paul
/ APPLICANT: Wood, William I.
/ APPLICANT: Zhang, Dong-Xiao
/ TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
/ FILE REFERENCE: P1224R2 (filed)
/ CURRENT APPLICATION NUMBER: US/09/202,122
/ CURRENT FILING DATE: 1999-03-04
/ PRIOR APPLICATION NUMBER: PCT/US98/25672
/ PRIOR FILING DATE: 1998-12-03
/ NUMBER OF SEQ ID NOS: 12
/ SEQ ID NO 9

Query Match 97.4%; Score 847; DB 3; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.7e-84;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLMQLNGRLVYCLKDRNFDPPEIKLOQFOKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLMQLNGRLVYCLKDRNFDPPEIKLOQFOKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILRNFINRLTGYLRN 166
Db 142 HLKRYVGRILHYLKAAYSHCAWTIVRVEILRNFINRLTGYLRN 187

RESULT 11
US-09-206-935-7
/ Sequence 7, Application US/09206935
/ Patent No. 6299877
/ GENERAL INFORMATION:
/ APPLICANT: Chen, Jian
/ APPLICANT: Godowski, Paul
/ APPLICANT: Wood, William I.
/ APPLICANT: Zhang, Dong-Xiao
/ TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
/ FILE REFERENCE: 11669.50US05
/ CURRENT APPLICATION NUMBER: US/09/206,935
/ CURRENT FILING DATE: 1998-12-07
/ EARLIER APPLICATION NUMBER: 60/084,045
/ EARLIER FILING DATE: 1998-05-04
/ NUMBER OF SEQ ID NOS: 24
/ SOFTWARE: Patent in Ver. 2.0
/ SEQ ID NO 7

Query Match 97.4%; Score 847; DB 3; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.7e-84;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLMQLNGRLVYCLKDRNFDPPEIKLOQFOKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLMQLNGRLVYCLKDRNFDPPEIKLOQFOKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILRNFINRLTGYLRN 166
Db 142 HLKRYVGRILHYLKAAYSHCAWTIVRVEILRNFINRLTGYLRN 187

RESULT 12
US-09-206-936-7
/ Sequence 7, Application US/09206936A
/ Patent No. 6300475
/ GENERAL INFORMATION:
/ APPLICANT: Chen, Jian
/ APPLICANT: Wood, William I.
/ TITLE OF INVENTION: No. 6300475el Interferon
/ FILE REFERENCE: P1224R1
/ CURRENT APPLICATION NUMBER: US/09/206,936A
/ CURRENT FILING DATE: 1998-12-07
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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-936-7

Query Match          97.4%; Score 847; DB 4; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.7e-84;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQRSNFCQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
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QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
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Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 141
    |||||||

QY 121 HLKRYYGRIHLHYLKAAYSHCAWTIVRVEILRNFYINRLTGYLNRN 166
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Db 142 HLKRYYGRIHLHYLKAAYSHCAWTIVRVEILRNFYINRLTGYLNRN 187
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RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482PI
; CURRENT APPLICATION NUMBER: US/09/487,792
; CURRENT FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-487-792-4

Query Match          97.4%; Score 847; DB 4; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.7e-84;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Db 22 MSYNLLGFLQRSNFCQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 81
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QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
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Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 141
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QY 121 HLKRYYGRIHLHYLKAAYSHCAWTIVRVEILRNFYINRLTGYLNRN 166
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Db 142 HLKRYYGRIHLHYLKAAYSHCAWTIVRVEILRNFYINRLTGYLNRN 187
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RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lafleur, et al.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2
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; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/232,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-908-594-4

Query Match          97.4%; Score 847; DB 4; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.7e-84;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQRSNFCQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
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QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
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QY 121 HLKRYYGRIHLHYLKAAYSHCAWTIVRVEILRNFYINRLTGYLNRN 166
    |||||||
Db 142 HLKRYYGRIHLHYLKAAYSHCAWTIVRVEILRNFYINRLTGYLNRN 187
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RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-622A-9

Query Match          97.4%; Score 847; DB 4; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.7e-84;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQRSNFCQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
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Db 22 MSYNLLGFLQRSNFCQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 81
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QY 61 EMLQNI FAIFRODSSSTGWNETI VENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db |||||
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Db |||||
QY 121 HLKRYYGRILHYLKAAYSHCAWTIVRVEILLNFYRINRLTGYLRLN 166
Db |||||
QY 142 HLKRYYGRILHYLKAAYSHCAWTIVRVEILLNFYRINRLTGYLRLN 187
Db |||||

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Job time : 13.8 secs

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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds
(without alignments)
1391.307 Million cell updates/sec

Title: US-09-832-659A-57
Perfect score: 870
Sequence: 1 MSYNLLGFLQSSNFQCKL.....RVELLNFYRNLGTLRN 166

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/prodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/prodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/prodata/2/pubpaa/US05_NEW_PUB.pep.*
- 4: /cgn2_6/prodata/2/pubpaa/US06_PUBCOMB.pep.*
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- 9: /cgn2_6/prodata/2/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/prodata/2/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/prodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/prodata/2/pubpaa/US09_NEW_PUB.pep.*
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- 14: /cgn2_6/prodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/prodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/prodata/2/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/prodata/2/pubpaa/US60_NEW_PUB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	860	98.9	166	10	US-09-832-658-24
2	847	97.4	166	10	US-09-832-658-24
3	847	97.4	166	12	US-09-732-438-16
4	847	97.4	166	14	US-10-246-932-1
5	847	97.4	166	14	US-10-186-962-1
6	847	97.4	166	14	US-10-400-377-5
7	847	97.4	166	14	US-10-400-708-5
8	847	97.4	166	14	US-10-084-706-2
9	847	97.4	166	14	US-10-298-148-5
10	847	97.4	166	14	US-10-325-720-2
11	847	97.4	166	14	US-10-351-183-2
12	847	97.4	166	14	US-10-449-456-1
13	847	97.4	166	15	US-10-609-296-2
14	847	97.4	166	16	US-10-448-667-1
15	847	97.4	183	9	US-09-832-659-4

16	847	97.4	183	10	US-09-832-658-2	Sequence 2, Appli
17	847	97.4	186	12	US-10-449-831A-146	Sequence 146, App
18	847	97.4	187	9	US-09-788-552-1	Sequence 1, Appli
19	847	97.4	187	9	US-09-919-622A-9	Sequence 9, Appli
20	847	97.4	187	12	US-10-411-037-6	Sequence 6, Appli
21	847	97.4	187	12	US-09-881-050-17	Sequence 17, Appli
22	847	97.4	187	12	US-10-411-026-6	Sequence 6, Appli
23	847	97.4	187	13	US-10-004-201-2	Sequence 2, Appli
24	847	97.4	187	14	US-10-096-373-2	Sequence 2, Appli
25	847	97.4	187	14	US-10-418-038-9	Sequence 9, Appli
26	847	97.4	187	16	US-10-410-962-6	Sequence 6, Appli
27	847	97.4	187	16	US-10-411-049-6	Sequence 6, Appli
28	847	97.4	199	12	US-09-766-920B-11	Sequence 11, Appli
29	847	97.4	234	12	US-10-449-831A-192	Sequence 192, App
30	847	97.4	399	9	US-09-832-659-2	Sequence 2, Appli
31	845	97.1	166	12	US-10-035-420-1	Sequence 1, Appli
32	845	97.1	166	12	US-10-010-448-1	Sequence 1, Appli
33	844	97.0	187	9	US-09-927-850-7	Sequence 7, Appli
34	840	96.6	166	9	US-09-788-552-2	Sequence 2, Appli
35	838	96.3	418	9	US-09-832-659-42	Sequence 42, Appli
36	838	96.3	423	9	US-09-832-659-44	Sequence 44, Appli
37	837	96.2	166	14	US-10-246-932-2	Sequence 2, Appli
38	836	96.1	166	15	US-10-168-956A-1	Sequence 1, Appli
39	835	96.0	166	12	US-10-035-420-2	Sequence 2, Appli
40	835	96.0	166	12	US-10-010-448-2	Sequence 2, Appli
41	812	93.3	166	10	US-09-832-658-27	Sequence 27, Appli
42	807	92.8	166	14	US-10-449-456-23	Sequence 23, Appli
43	807	92.8	187	9	US-09-725-433-4	Sequence 4, Appli
44	807	92.8	187	9	US-10-284-740-12	Sequence 12, Appli
45	807	92.8	187	14	US-10-284-740-12	Sequence 12, Appli

ALIGNMENTS

RESULT 1
US-09-832-658-24
; Sequence 24, Application US/09832658
; Publication No. US20030021765A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; APPLICANT: Pepinsky, Blake
; APPLICANT: Runkel, Laura
; APPLICANT: Brickelmaier, Margot
; APPLICANT: Whitty, Adrian
; APPLICANT: Hochman, Paula
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a
; TITLE OF INVENTION: and Uses
; FILE REFERENCE: A065PCT
; CURRENT APPLICATION NUMBER: US/09/832,658
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/104,572
; PRIOR FILING DATE: 1998-10-16
; PRIOR APPLICATION NUMBER: 60/120,161
; PRIOR FILING DATE: 1999-02-16
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 166
; TYPE: PRT
; ORGANISM: human
US-09-832-658-24

Query Match 98.9%; Score 860; DB 10; Length 166;
Best Local Similarity 98.8%; Pred. No. 2e-81;
Matches 164; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Db	1	MSYNLLGFLQSSNFQCKLWQLNGRLVCLKDRMFDIPEIKQLQFQKEDAAITTY	60
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Db      61  EMLQNIFAIFRQDSSSTGNETIVENLLANYHQLNHLKTVLEBKLEKEDFTGKLMSSL 120
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Db      121  HLKRYYGRIHLHYLKAAAYSHCAWITIVRVEILRNFYINRLTGYLRN 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match          97.4%; Score 847; DB 10; Length 166;
Best Local Similarity 97.6%; Pred. No. 4.6e-80;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0

Qy      1  MSYNLLGFLQRSNFCQCKLWQLNGRLEYCLKQRMNFDIPEETKQLQQFQKEDAALTIY 60
Db      1  MSYNLLGFLQRSNFCQCKLWQLNGRLEYCLKQRMNFDIPEETKQLQQFQKEDAALTIY 60

Qy      61  EMLQNIFAIFRQDSSSTGNETIVENLLANYHQLNHLKTVLEBKLEKEDFTGKLMSSL 120
Db      61  EMLQNIFAIFRQDSSSTGNETIVENLLANYHQLNHLKTVLEBKLEKEDFTGKLMSSL 120

Qy      121  HLKRYYGRIHLHYLKAAAYSHCAWITIVRVEILRNFYINRLTGYLRN 166
Db      121  HLKRYYGRIHLHYLKAAAYSHCAWITIVRVEILRNFYINRLTGYLRN 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US2003006491A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Subhidas K
; APPLICANT: Shimkete, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT

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; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match          97.4%; Score 847; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 4.6e-80;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Db 61 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQINHLKTVLEKLEKEDFTRGALMSSL 120

Qy 121 HLKRYGRIILHYLKAAYSHCAWTVRVEILRNFYRINRLTGYLRN 166
Db 121 HLKRYGRIILHYLKAAYSHCAWTVRVEILRNFYRINRLTGYLRN 166

RESULT 6
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          97.4%; Score 847; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 4.6e-80;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFKEDAALTYI 60

Qy 61 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQINHLKTVLEKLEKEDFTRGALMSSL 120

Qy 121 HLKRYGRIILHYLKAAYSHCAWTVRVEILRNFYRINRLTGYLRN 166
Db 121 HLKRYGRIILHYLKAAYSHCAWTVRVEILRNFYRINRLTGYLRN 166

RESULT 7
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US20030166865A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
```

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; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-708-5

Query Match          97.4%; Score 847; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 4.6e-80;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFKEDAALTYI 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFKEDAALTYI 60

Qy 61 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQINHLKTVLEKLEKEDFTRGALMSSL 120

Qy 121 HLKRYGRIILHYLKAAYSHCAWTVRVEILRNFYRINRLTGYLRN 166
Db 121 HLKRYGRIILHYLKAAYSHCAWTVRVEILRNFYRINRLTGYLRN 166

RESULT 8
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalsg+rd
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen AGS
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
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; NAME/KEY: CHAIN
; LOCATION: (1)....(166)
; OTHER INFORMATION: h1FNb mature sequence
US-10-084-706-2

Query Match      97.4%; Score 847; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 4.6e-80;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
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QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYNRLTGYLRLN 166
Db 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYNRLTGYLRLN 166

RESULT 9
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US20030171284A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Bolder Biotechnology, Inc.
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match      97.4%; Score 847; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 4.6e-80;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYNRLTGYLRLN 166
Db 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYNRLTGYLRLN 166

RESULT 10
US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 020us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2002-12-19
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; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match      97.4%; Score 847; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 4.6e-80;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYNRLTGYLRLN 166
Db 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYNRLTGYLRLN 166

RESULT 11
US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 020us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match      97.4%; Score 847; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 4.6e-80;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYNRLTGYLRLN 166
Db 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYNRLTGYLRLN 166

RESULT 12
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US20030186886A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewandter
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
```

```
; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-449-456-1

Query Match          97.4%; Score 847; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 4.6e-80;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRNFDIPEIKQLQOFQKEDAALTYI 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRNFDIPEIKQLQOFQKEDAALTYI 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYYGRIHLHYLKAAAYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYYGRIHLHYLKAAAYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTUP, Jørn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalgård
; APPLICANT: ANDERSEN, Kim Vilbør
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228ue410
; CURRENT APPLICATION NUMBER: US/10/609,296
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: hIFNB mature sequence
US-10-609-296-2

Query Match          97.4%; Score 847; DB 15; Length 166;
Best Local Similarity 97.6%; Pred. No. 4.6e-80;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRNFDIPEIKQLQOFQKEDAALTYI 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRNFDIPEIKQLQOFQKEDAALTYI 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYYGRIHLHYLKAAAYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYYGRIHLHYLKAAAYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-448-667-1

Query Match          97.4%; Score 847; DB 16; Length 166;
Best Local Similarity 97.6%; Pred. No. 4.6e-80;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRNFDIPEIKQLQOFQKEDAALTYI 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRNFDIPEIKQLQOFQKEDAALTYI 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYYGRIHLHYLKAAAYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYYGRIHLHYLKAAAYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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; Patent No. US20020155547A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses
; FILE REFERENCE: A064PCTSEQ
; CURRENT APPLICATION NUMBER: US/09/832,659
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/120,237
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/104,491
; PRIOR FILING DATE: 1998-10-16
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 183
; TYPE: PRT
; ORGANISM: murine
US-09-832-659-4

Query Match 97.4%; Score 847; DB 9; Length 183;
Best Local Similarity 97.6%; Pred. No. 5.2e-80;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 1 MSYNLLGFLORSSNFQCKLLWQLNGRLEYCLKDRMNFDEEIKQLQPFQKEDALTIY 60
DB 18 MSYNLLGFLORSSNFQCKLLWQLNGRLEYCLKDRMNFDEEIKQLQPFQKEDALTIY 77
QY 61 EMLQNIPIAFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
DB 78 EMLQNIPIAFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 137
QY 121 HLKRYIGRILHYLKAAAYSHCAWTIVRVEILRNFYRNRLTGYLRLN 166
DB 138 HLKRYIGRILHYLKAAKEYSHCAWTIVRVEILRNFYRNRLTGYLRLN 183

Search completed: May 19, 2004, 15:20:02
Job time : 33.2 secs

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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 Seconds
(without alignments)
669.524 Million cell updates/sec

Title: US-09-832-659A-56
Perfect score: 866
Sequence: 1 MSYNLLGLFQRSSNFQCKL.....RVEILRNFYINRLTGYLRN 166

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
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4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	832	96.1	166	4	US-09-397-992A-7
2	832	96.1	166	4	US-09-569-722A-1
3	832	96.1	166	4	US-09-648-569A-2
4	832	96.1	166	4	US-09-971-843-7
5	832	96.1	166	4	US-09-403-532E-1
6	832	96.1	166	4	US-09-462-941-5
7	832	96.1	166	6	5514567-4
8	832	96.1	187	3	US-09-206-903A-9
9	832	96.1	187	3	US-08-408-030A-30
10	832	96.1	187	3	US-09-202-122-9
11	832	96.1	187	3	US-09-206-935-7
12	832	96.1	187	4	US-09-206-936-7
13	832	96.1	187	4	US-09-487-792-4
14	832	96.1	187	4	US-09-908-594-4
15	832	96.1	187	4	US-09-919-622A-9
16	832	96.1	187	6	5514567-1
17	832	96.1	415	4	US-09-215-212-14
18	830	95.8	166	2	US-08-477-310A-1
19	827	95.5	166	1	US-08-213-448-1
20	827	95.5	166	3	US-08-912-768-1
21	827	95.5	166	4	US-09-569-722A-18
22	827	95.5	166	4	US-09-569-722A-4
23	827	95.5	166	5	PCT-0595-03206-1
24	827	95.3	187	3	US-08-912-768-3
25	825	95.3	166	4	US-09-487-792-21
26	825	95.3	166	4	US-09-908-594-21
27	824	95.2	187	1	US-08-026-758-22

28	823	95.0	166	4	US-09-331-260-2	Sequence 2, Appli
29	822	94.9	166	4	US-09-569-722A-5	Sequence 5, Appli
30	815	94.1	187	6	5326859-1	Patent No. 5326859
31	813	93.9	166	4	US-09-569-722A-13	Sequence 13, Appli
32	813	93.9	166	4	US-09-569-722A-19	Sequence 19, Appli
33	808	93.3	166	4	US-09-569-722A-8	Sequence 8, Appli
34	808	93.3	166	4	US-09-569-722A-16	Sequence 16, Appli
35	806	93.1	166	4	US-09-569-722A-6	Sequence 6, Appli
36	805	93.0	166	4	US-09-569-722A-24	Sequence 24, Appli
37	803	92.7	166	4	US-09-569-722A-14	Sequence 14, Appli
38	802	92.6	166	4	US-09-569-722A-7	Sequence 7, Appli
39	802	92.6	166	4	US-09-569-722A-12	Sequence 12, Appli
40	802	92.6	166	4	US-09-569-722A-17	Sequence 17, Appli
41	801	92.5	166	4	US-09-569-722A-22	Sequence 22, Appli
42	800	92.4	166	4	US-09-569-722A-15	Sequence 15, Appli
43	797	92.0	166	4	US-09-569-722A-20	Sequence 20, Appli
44	796	91.9	166	4	US-09-569-722A-11	Sequence 11, Appli
45	796	91.9	187	6	5510472-6	Patent No. 5510472

ALIGNMENTS

RESULT 1

US-09-397-992A-7
; Sequence 7, Application US/09397992A
; Patent No. 6329175
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46
; CURRENT APPLICATION NUMBER: US/09/397,992A
; PRIOR FILING DATE: 1999-09-16
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-397-992A-7

Query Match	96.1%	Score 832	DB 4	Length 166
Best Local Similarity	96.4%	Pred. No. 1.1e-84		
Matches 160	Conservative 0	Mismatches 6	Indels 0	Gaps 0
QY	1	MSYNLLGLFQRSSNFQCKLWQLWQLGRLEYCLKDRWNFDIPEEIKOLOQFOKEDAAITTY	60	
Db	1	MSYNLLGLFQRSSNFQCKLWQLWQLGRLEYCLKDRWNFDIPEEIKOLOQFOKEDAAITTY	60	
QY	61	EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDPTRGALMSSL	120	
Db	61	EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDPTRGALMSSL	120	
QY	121	HLKRYGAIATYAAVLAKEYSHCAWTVRVEILRNFYINRLTGYLRN	166	
Db	121	HLKRYGRILHYLKAKEYSHCAWTVRVEILRNFYINRLTGYLRN	166	

RESULT 2

US-09-569-722A-1
; Sequence 1, Application US/09569722A
; Patent No. 6514729
; GENERAL INFORMATION:
; APPLICANT: Bentzien, Joerg M

```
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY
; FILE REFERENCE: A-68059-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/569,722A
; CURRENT FILING DATE: 2000-05-11
; PRIOR APPLICATION NUMBER: US 60/133,785
; PRIOR FILING DATE: 1993-05-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-569-722A-1

Query Match
Best Local Similarity 96.1%; Score 832; DB 4; Length 166;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANYVHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANYVHQINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166

RESULT 3
US-09-648-569A-2
; Sequence 2, Application US/09648569A
; Patent No. 6531122
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us810
; CURRENT APPLICATION NUMBER: US/09/648,569A
; CURRENT FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-648-569A-2

Query Match
Best Local Similarity 96.1%; Score 832; DB 4; Length 166;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANYVHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANYVHQINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166

RESULT 4
US-09-971-843-7
; Sequence 7, Application US/09971843
; Patent No. 6544505
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
```

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; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match
Best Local Similarity 96.1%; Score 832; DB 4; Length 166;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANYVHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANYVHQINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166

RESULT 5
US-09-403-532E-1
; Sequence 1, Application US/09403532E
; Patent No. 6572853
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Maschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/09/403,532E
; CURRENT FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-403-532E-1

Query Match
Best Local Similarity 96.1%; Score 832; DB 4; Length 166;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 60
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QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HKRYVGAIAAAYLAKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166
DB 121 HKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166

RESULT 6
US-09-462-941-5
; Sequence 5, Application US/09462941
; Patent No. 6608183
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/09/462,941
; CURRENT FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-462-941-5

Query Match 96.1%; Score 832; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.1e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HKRYVGAIAAAYLAKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166
DB 121 HKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166

RESULT 7
5514567-4
; Patent No. 5514567
; APPLICANT: SUGANO, HARUO;MURAMATSU, MASAMI;TANIGUCHI,
; TADATSUGU
; TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID
; NUMBER OF SEQUENCES: 5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/400,179
; FILING DATE: 06-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 389,922
; FILING DATE: 18-JUN-1982
; APPLICATION NUMBER: 201,359
; FILING DATE: 27-OCT-1980
; SEQ ID NO:4;
; LENGTH: 166
5514567-4

Query Match 96.1%; Score 832; DB 6; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.1e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
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QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HKRYVGAIAAAYLAKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166
DB 121 HKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166

RESULT 8
US-09-206-903A-9
; Sequence 9, Application US/09206903A
; Patent No. 6200780
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul J.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: P1224-2R1
; CURRENT APPLICATION NUMBER: US/09/206,903A
; CURRENT FILING DATE: 1998-12-07
; PRIOR APPLICATION NUMBER: US 60/106,463
; PRIOR FILING DATE: 1998-10-30
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-903A-9

Query Match 96.1%; Score 832; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 1.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 81
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HKRYVGAIAAAYLAKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166
DB 142 HKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNR 187

RESULT 9
US-08-406-030A-30
; Sequence 30, Application US/08406030A
; Patent No. 6270989
; GENERAL INFORMATION:
; APPLICANT: Treco, Douglas A.
; APPLICANT: Heartlein, Michael W.
; APPLICANT: Hauge, Brian M.
; APPLICANT: Selden, Richard F
; TITLE OF INVENTION: Protein Production and Delivery
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
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; APPLICATION NUMBER: US/08/406,030A
; FILING DATE: 17-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/243,391
; FILING DATE: 13-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/985,586
; FILING DATE: 03-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/911,533
; FILING DATE: 10-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,840
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,188
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/11704
; FILING DATE: 02-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/09627
; FILING DATE: 05-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: TKT95-01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 187 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-406-030A-30

Query Match          96.1%; Score 832; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 1.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQRSNFCQKLLWQNGRLVCYKDRNFDIPEIKQLQOFQKEDAAITY 60
Db 22 MSYNLLGFLQRSNFCQKLLWQNGRLVCYKDRNFDIPEIKQLQOFQKEDAAITY 81
Qy 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
Qy 121 HLKRYYGAIAYLAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 142 HLKRYYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 187

RESULT 10
US-09-202-122-9
; Sequence 9, Application US/09202122
; Patent No. 6299869
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2 (filed)
; CURRENT APPLICATION NUMBER: US/09/202,122
; CURRENT FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9

Query Match          96.1%; Score 832; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 1.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQRSNFCQKLLWQNGRLVCYKDRNFDIPEIKQLQOFQKEDAAITY 60
Db 22 MSYNLLGFLQRSNFCQKLLWQNGRLVCYKDRNFDIPEIKQLQOFQKEDAAITY 81
Qy 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
Qy 121 HLKRYYGAIAYLAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 142 HLKRYYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 187

RESULT 11
US-09-206-935-7
; Sequence 7, Application US/09206935
; Patent No. 6299877
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: 11669.50US05
; CURRENT APPLICATION NUMBER: US/09/206,935
; CURRENT FILING DATE: 1998-12-07
; EARLIER APPLICATION NUMBER: 60/084,045
; EARLIER FILING DATE: 1998-05-04
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 7

Query Match          96.1%; Score 832; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 1.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQRSNFCQKLLWQNGRLVCYKDRNFDIPEIKQLQOFQKEDAAITY 60
Db 22 MSYNLLGFLQRSNFCQKLLWQNGRLVCYKDRNFDIPEIKQLQOFQKEDAAITY 81
Qy 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
Qy 121 HLKRYYGAIAYLAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 142 HLKRYYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 187

RESULT 12
US-09-206-936-7
; Sequence 7, Application US/09206936A
; Patent No. 630475
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: No. 6300475el Interferon
; FILE REFERENCE: P1224R1
; CURRENT APPLICATION NUMBER: US/09/206,936A
; CURRENT FILING DATE: 1998-12-07
; SEQ ID NO 9
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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-936-7

Query Match          96.1%; Score 832; DB 4; Length 187;
Best Local Similarity 96.4%; Pred. No. 1.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITTY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITTY 81

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 141

QY 121 HLKRYYGAIAYLAKEYSHCAWTVRVEILNFRINRLTGYLNRN 166
Db 142 HLKRYYGRILHYLKAKEYSHCAWTVRVEILNFRINRLTGYLNRN 187

RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P1
; CURRENT APPLICATION NUMBER: US/09/487,792
; CURRENT FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-487-792-4

Query Match          96.1%; Score 832; DB 4; Length 187;
Best Local Similarity 96.4%; Pred. No. 1.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITTY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITTY 81

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 141

QY 121 HLKRYYGAIAYLAKEYSHCAWTVRVEILNFRINRLTGYLNRN 166
Db 142 HLKRYYGRILHYLKAKEYSHCAWTVRVEILNFRINRLTGYLNRN 187

RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lafleur, et al.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2

; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/292,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-908-594-4

Query Match          96.1%; Score 832; DB 4; Length 187;
Best Local Similarity 96.4%; Pred. No. 1.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITTY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITTY 81

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 141

QY 121 HLKRYYGAIAYLAKEYSHCAWTVRVEILNFRINRLTGYLNRN 166
Db 142 HLKRYYGRILHYLKAKEYSHCAWTVRVEILNFRINRLTGYLNRN 187

RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-622A-9

Query Match          96.1%; Score 832; DB 4; Length 187;
Best Local Similarity 96.4%; Pred. No. 1.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITTY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITTY 81
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Qy	61	EMLQNI	FAIFRODSSSTGWN	ETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL	120
Db	82	EMLQNI	FAIFRODSSSTGWN	ETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL	141
Qy	121	HLKRYYGAI	AAVLAKEYSHCAWTIVRVEILENFYRINRLTGYLEN	166	
Db	142	HLKRYYGRIL	HYLKAKEYSHCAWTIVRVEILENFYRINRLTGYLEN	187	

Search completed: May 19, 2004, 14:26:13
Job time : 12.8 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds
(without alignments)
1391.307 Million cell updates/sec

Title: US-09-832-659A-56

Perfect score: 866

Sequence: 1 MSYNLLGLFQRSSNFQCKL.....RVEILNRYINRLTGVLN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pap.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pap.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pap.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pap.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pap.*
- 6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pap.*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pap.*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pap.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pap.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pap.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pap.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pap.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pap.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pap.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pap.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pap.*
- 17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pap.*
- 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	845	97.6	166	10	US-09-832-658-24
2	832	96.1	166	10	US-09-971-843-7
3	832	96.1	166	12	US-09-732-436-16
4	832	96.1	166	14	US-10-246-932-1
5	832	96.1	166	14	US-10-186-962-1
6	832	96.1	166	14	US-10-400-377-5
7	832	96.1	166	14	US-10-400-708-5
8	832	96.1	166	14	US-10-084-706-2
9	832	96.1	166	14	US-10-298-148-5
10	832	96.1	166	14	US-10-325-720-2
11	832	96.1	166	14	US-10-351-189-2
12	832	96.1	166	14	US-10-449-456-1
13	832	96.1	166	15	US-10-609-296-2
14	832	96.1	166	16	US-10-448-667-1
15	832	96.1	183	9	US-09-832-659-4

16	832	96.1	183	10	US-09-832-658-2	Sequence 2, Appli
17	832	96.1	186	12	US-10-449-831A-146	Sequence 146, App
18	832	96.1	187	9	US-09-788-552-1	Sequence 1, Appli
19	832	96.1	187	9	US-09-919-622A-9	Sequence 9, Appli
20	832	96.1	187	12	US-10-411-037-6	Sequence 6, Appli
21	832	96.1	187	12	US-09-881-050-17	Sequence 17, Appli
22	832	96.1	187	12	US-10-411-026-6	Sequence 6, Appli
23	832	96.1	187	13	US-10-004-201-2	Sequence 2, Appli
24	832	96.1	187	14	US-10-096-373-2	Sequence 2, Appli
25	832	96.1	187	14	US-10-418-038-9	Sequence 9, Appli
26	832	96.1	187	16	US-10-410-962-6	Sequence 6, Appli
27	832	96.1	187	16	US-10-411-049-9	Sequence 6, Appli
28	832	96.1	199	12	US-09-766-920B-11	Sequence 11, Appli
29	832	96.1	234	12	US-10-449-831A-192	Sequence 192, App
30	832	96.1	399	9	US-09-832-659-2	Sequence 2, Appli
31	830	95.8	166	12	US-10-035-420-1	Sequence 1, Appli
32	830	95.8	166	12	US-10-010-448-1	Sequence 7, Appli
33	829	95.7	187	9	US-09-927-850-7	Sequence 7, Appli
34	825	95.3	166	9	US-09-788-552-2	Sequence 2, Appli
35	823	95.0	418	9	US-09-832-659-42	Sequence 42, Appli
36	823	95.0	423	9	US-09-832-659-44	Sequence 44, Appli
37	822	94.9	166	14	US-10-246-932-2	Sequence 2, Appli
38	821	94.8	166	15	US-10-168-956A-1	Sequence 1, Appli
39	820	94.7	166	12	US-10-035-420-2	Sequence 2, Appli
40	820	94.7	166	12	US-10-010-448-2	Sequence 2, Appli
41	800	92.4	166	12	US-09-832-658-26	Sequence 26, Appli
42	792	91.5	166	14	US-10-449-456-23	Sequence 23, Appli
43	792	91.5	166	16	US-10-448-667-23	Sequence 23, Appli
44	792	91.5	187	9	US-09-725-433-4	Sequence 4, Appli
45	792	91.5	187	14	US-10-284-740-12	Sequence 12, Appli

ALIGNMENTS

RESULT 1

US-09-832-658-24
; Sequence 24, Application US/09832658
; Publication No. US20030021765A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; APPLICANT: Pepinsky, Blake
; APPLICANT: Runkel, Laura
; APPLICANT: Brickelmaier, Margot
; APPLICANT: Whitty, Adrian
; APPLICANT: Hochman, Paula
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a
; FILE REFERENCE: A065PCT
; CURRENT APPLICATION NUMBER: US/09/832,658
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/104,572
; PRIOR FILING DATE: 1998-10-16
; PRIOR APPLICATION NUMBER: 60/120,161
; PRIOR FILING DATE: 1993-02-16
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 166
; TYPE: PRT
; ORGANISM: human
US-09-832-658-24

Query Match 97.6%; Score 845; DB 10; Length 166;
Best Local Similarity 97.6%; Pred. No. 1.2e-79;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy	1	MSYNLLGLFQRSSNFQCKLWQLNGRLEYCLKDRMNFDPPEIKLOQFOFKEDAAITY	60
Db	1	MSYNLLGLFQRSSNFQCKLWQLNGRLEYCLKDRMNFDPPEIKLOQFOFKEDAAITY	60
Qy	61	EMLQNIFFAFRODSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTFRGALMSL	120

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Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILNFYRINRLTGYLNR 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLNR 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Dorell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixen, Mark W.
; APPLICANT: Kindevogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-03-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1998-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match 96.1%; Score 832; DB 10; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILNFYRINRLTGYLNR 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLNR 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Suhirdas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILNFYRINRLTGYLNR 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLNR 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorianne
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PP18399,002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match 96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILNFYRINRLTGYLNR 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLNR 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTUP, Joern
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30
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; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY      1 MSYNLLGFLQSSNFQCCQKLLQWLNGLREYCLKDRMNFDPPEIKQLQQFQKEDAALTY 60
DB      1 MSYNLLGFLQSSNFQCCQKLLQWLNGLREYCLKDRMNFDPPEIKQLQQFQKEDAALTY 60
QY      61 EMLQNIFAIFRQDSSSTGWNNTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB      61 EMLQNIFAIFRQDSSSTGWNNTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY      121 HLKRYGGAIAAYLAKEYSHCAWTVIRVEILRNRYNRLTGYLRN 166
DB      121 HLKRYGGRILHYLKAKEYSHCAWTVIRVEILRNRYNRLTGYLRN 166

RESULT 6
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY      1 MSYNLLGFLQSSNFQCCQKLLQWLNGLREYCLKDRMNFDPPEIKQLQQFQKEDAALTY 60
DB      1 MSYNLLGFLQSSNFQCCQKLLQWLNGLREYCLKDRMNFDPPEIKQLQQFQKEDAALTY 60
QY      61 EMLQNIFAIFRQDSSSTGWNNTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB      61 EMLQNIFAIFRQDSSSTGWNNTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY      121 HLKRYGGAIAAYLAKEYSHCAWTVIRVEILRNRYNRLTGYLRN 166
DB      121 HLKRYGGRILHYLKAKEYSHCAWTVIRVEILRNRYNRLTGYLRN 166

RESULT 7
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US2003016866A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
```

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; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-708-5

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY      1 MSYNLLGFLQSSNFQCCQKLLQWLNGLREYCLKDRMNFDPPEIKQLQQFQKEDAALTY 60
DB      1 MSYNLLGFLQSSNFQCCQKLLQWLNGLREYCLKDRMNFDPPEIKQLQQFQKEDAALTY 60
QY      61 EMLQNIFAIFRQDSSSTGWNNTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB      61 EMLQNIFAIFRQDSSSTGWNNTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY      121 HLKRYGGAIAAYLAKEYSHCAWTVIRVEILRNRYNRLTGYLRN 166
DB      121 HLKRYGGRILHYLKAKEYSHCAWTVIRVEILRNRYNRLTGYLRN 166

RESULT 8
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalgard
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
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; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: h1FNB mature sequence
US-10-084-706-2

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGAIAYLAAYLAKEYSHCAWTVRVEILNFYINRLTGYLRN 166
DB 121 HLKRYGRIHLKAYKEYSHCAWTVRVEILNFYINRLTGYLRN 166

RESULT 9
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US20030171284A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGAIAYLAAYLAKEYSHCAWTVRVEILNFYINRLTGYLRN 166
DB 121 HLKRYGRIHLKAYKEYSHCAWTVRVEILNFYINRLTGYLRN 166

RESULT 10
US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2002-12-19
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; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGAIAYLAAYLAKEYSHCAWTVRVEILNFYINRLTGYLRN 166
DB 121 HLKRYGRIHLKAYKEYSHCAWTVRVEILNFYINRLTGYLRN 166

RESULT 11
US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGAIAYLAAYLAKEYSHCAWTVRVEILNFYINRLTGYLRN 166
DB 121 HLKRYGRIHLKAYKEYSHCAWTVRVEILNFYINRLTGYLRN 166

RESULT 12
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US2003018686A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
```

```
; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; PRIOR FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-449-456-1

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jørn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalesg+rd
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORN, Claus
; APPLICANT: Maxysen Aps
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/609,296
; PRIOR FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: hIFNB mature sequence
US-10-609-296-2

Query Match          96.1%; Score 832; DB 15; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Eresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; PRIOR FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-448-667-1

Query Match          96.1%; Score 832; DB 16; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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Search completed: May 19, 2004, 15:20:02
Job time : 34.2 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds
(without alignments)
1391.307 Million cell updates/sec

Title: US-09-832-659A-55

Perfect score: 867

Sequence: 1 MSYNLLGLFQSSNFQCKL.....RVEILNRYINRLTGYLEN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
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- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	842	97.1	166	10	US-09-832-658-24
2	829	95.6	166	10	US-09-832-658-24
3	829	95.6	166	12	US-09-832-658-24
4	829	95.6	166	14	US-09-832-658-24
5	829	95.6	166	14	US-09-832-658-24
6	829	95.6	166	14	US-09-832-658-24
7	829	95.6	166	14	US-09-832-658-24
8	829	95.6	166	14	US-09-832-658-24
9	829	95.6	166	14	US-09-832-658-24
10	829	95.6	166	14	US-09-832-658-24
11	829	95.6	166	14	US-09-832-658-24
12	829	95.6	166	14	US-09-832-658-24
13	829	95.6	166	14	US-09-832-658-24
14	829	95.6	166	14	US-09-832-658-24
15	829	95.6	166	14	US-09-832-658-24

16	829	95.6	183	10	US-09-832-658-2	Sequence 2, Appli
17	829	95.6	186	12	US-10-449-831A-146	Sequence 146, App
18	829	95.6	187	9	US-09-788-552-1	Sequence 1, Appli
19	829	95.6	187	9	US-09-788-552-1	Sequence 9, Appli
20	829	95.6	187	12	US-10-411-037-6	Sequence 6, Appli
21	829	95.6	187	12	US-09-881-050-17	Sequence 17, Appli
22	829	95.6	187	12	US-10-411-026-6	Sequence 6, Appli
23	829	95.6	187	13	US-10-004-201-2	Sequence 2, Appli
24	829	95.6	187	14	US-10-096-373-2	Sequence 2, Appli
25	829	95.6	187	14	US-10-418-038-9	Sequence 9, Appli
26	829	95.6	187	16	US-10-410-962-6	Sequence 6, Appli
27	829	95.6	187	16	US-10-411-049-6	Sequence 6, Appli
28	829	95.6	187	16	US-10-411-049-6	Sequence 11, Appli
29	829	95.6	234	12	US-10-449-831A-192	Sequence 192, App
30	829	95.6	339	9	US-09-832-659-2	Sequence 2, Appli
31	827	95.4	166	12	US-10-035-420-1	Sequence 1, Appli
32	827	95.4	166	12	US-10-010-448-1	Sequence 1, Appli
33	826	95.3	187	9	US-09-927-850-7	Sequence 7, Appli
34	822	94.8	166	9	US-09-788-552-2	Sequence 2, Appli
35	820	94.6	166	10	US-09-832-658-25	Sequence 42, Appli
36	820	94.6	418	9	US-09-832-659-42	Sequence 44, Appli
37	820	94.6	423	9	US-09-832-659-44	Sequence 2, Appli
38	819	94.5	166	14	US-10-246-932-2	Sequence 1, Appli
39	818	94.3	166	15	US-10-168-956A-1	Sequence 2, Appli
40	817	94.2	166	12	US-10-035-420-2	Sequence 2, Appli
41	817	94.2	166	12	US-10-010-448-2	Sequence 2, Appli
42	809	93.3	166	14	US-10-084-706-56	Sequence 56, Appli
43	809	93.3	166	15	US-10-609-296-56	Sequence 56, Appli
44	808	93.2	166	14	US-10-449-456-23	Sequence 23, Appli
45	808	93.2	166	16	US-10-448-667-23	Sequence 23, Appli

ALIGNMENTS

RESULT 1

US-09-832-658-24
; Sequence 24, Application US/09832658
; Publication No. US20030021765A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; APPLICANT: Pepinsky, Blake
; APPLICANT: Runkel, Laura
; APPLICANT: Brickelmaier, Margot
; APPLICANT: Whitty, Adrian
; APPLICANT: Hochman, Paula
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-la
; FILE REFERENCE: A065PCT
; CURRENT APPLICATION NUMBER: US/09/832,658
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/104,572
; PRIOR FILING DATE: 1998-10-16
; PRIOR APPLICATION NUMBER: 60/120,161
; PRIOR FILING DATE: 1999-02-16
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 166
; TYPE: PRT
; ORGANISM: human
US-09-832-658-24

Query Match 97.1%; Score 842; DB 10; Length 166;

Best Local Similarity 97.0%; Pred. No. 4e-81;

Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGLFQSSNFQCKLWQLNRLLEYCLKDRMNFDPFEEIKLOFOKQKDAALTY 60

DB 1 MSYNLLGLFQSSNFQCKLWQLNRLLEYCLKDRMNFDPFEEIKLOFOKQKDAALTY 60

QY 61 EMLONIFAIFQDSSSTGWNITVENLIANYHVNHLKTVLEKLEKAAATAGAAASAL 120

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Db      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120

QY      121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRL 166
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Db      121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRL 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46DI
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match      95.6%; Score 829; DB 10; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY      1 MSYNLLGFLQRSNFCQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTYI 60
Db      1 MSYNLLGFLQRSNFCQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTYI 60

QY      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
Db      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120

QY      121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRL 166
Db      121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRL 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Suhirdas K
; APPLICANT: Shimkete, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT

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; ORGANISM: Homo sapiens
US-09-732-436-16

Query Match      95.6%; Score 829; DB 12; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY      1 MSYNLLGFLQRSNFCQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTYI 60
Db      1 MSYNLLGFLQRSNFCQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTYI 60

QY      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
Db      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120

QY      121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRL 166
Db      121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRL 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorraine
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PP18399.002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match      95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY      1 MSYNLLGFLQRSNFCQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTYI 60
Db      1 MSYNLLGFLQRSNFCQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTYI 60

QY      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
Db      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120

QY      121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRL 166
Db      121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRL 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTRUP, Joern
; APPLICANT: Maxysen Aps
; APPLICANT: Maxysen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30

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; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match      95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLQWNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLQWNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAALTY 60
QY 61 EMLQNIFAIPRODSSSTGNNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAMSAL 120
DB 61 EMLQNIFAIPRODSSSTGNNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAMSAL 120
QY 121 HLKRYGRILHYLKKEYSHCAWTIVRVEILRNFYINRLTGYLRLN 166
DB 121 HLKRYGRILHYLKKEYSHCAWTIVRVEILRNFYINRLTGYLRLN 166

RESULT 6
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match      95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLQWNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLQWNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAALTY 60
QY 61 EMLQNIFAIPRODSSSTGNNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAMSAL 120
DB 61 EMLQNIFAIPRODSSSTGNNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAMSAL 120
QY 121 HLKRYGRILHYLKKEYSHCAWTIVRVEILRNFYINRLTGYLRLN 166
DB 121 HLKRYGRILHYLKKEYSHCAWTIVRVEILRNFYINRLTGYLRLN 166

RESULT 7
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US2003016865A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
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; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-708-5

Query Match      95.8%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

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DB 61 EMLQNIFAIPRODSSSTGNNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAMSAL 120
QY 121 HLKRYGRILHYLKKEYSHCAWTIVRVEILRNFYINRLTGYLRLN 166
DB 121 HLKRYGRILHYLKKEYSHCAWTIVRVEILRNFYINRLTGYLRLN 166

RESULT 8
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBEY, Hans Thalesgard
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
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; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: h1FNB mature sequence
US-10-084-706-2

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTYI 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTYI 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAAGSAL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAAGSAL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFIRNLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFIRNLTGYLRN 166

RESULT 9
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US20030171284A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; CURRENT FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTYI 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTYI 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAAGSAL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAAGSAL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFIRNLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFIRNLTGYLRN 166

RESULT 10
US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2002-12-19
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; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTYI 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTYI 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAAGSAL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAAGSAL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFIRNLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFIRNLTGYLRN 166

RESULT 11
US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTYI 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTYI 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAAGSAL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAAGSAL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFIRNLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFIRNLTGYLRN 166

RESULT 12
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US2003018686A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewandter
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
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; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-449-456-1

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQOQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQOQKEDAAITY 60
Qy 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEBKEKEAATAGAAASAL 120
Db 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEBKEKEAATAGAAASAL 120
Qy 121 HLKRYVGRILHYLKAKESHCAWTIVRVEILRNFRINLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKESHCAWTIVRVEILRNFRINLTGYLRN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalgard
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/609,296
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/984,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2

; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-449-456-1

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

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Qy 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEBKEKEAATAGAAASAL 120
Db 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEBKEKEAATAGAAASAL 120
Qy 121 HLKRYVGRILHYLKAKESHCAWTIVRVEILRNFRINLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKESHCAWTIVRVEILRNFRINLTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewandter
; APPLICANT: Schneider-Eresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-448-667-1

Query Match          95.6%; Score 829; DB 16; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQOQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQOQKEDAAITY 60
Qy 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEBKEKEAATAGAAASAL 120
Db 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEBKEKEAATAGAAASAL 120
Qy 121 HLKRYVGRILHYLKAKESHCAWTIVRVEILRNFRINLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKESHCAWTIVRVEILRNFRINLTGYLRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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; Patent No. US20020155547A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses
; FILE REFERENCE: A064PCTSEQ
; CURRENT APPLICATION NUMBER: US/09/832,659
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/120,237
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/104,491
; PRIOR FILING DATE: 1998-10-16
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 183
; TYPE: PRT
; ORGANISM: murine
US-09-832-659-4

Query Match          95.6%; Score 829; DB 9; Length 183;
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Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

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Db      78 EMLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSL 137

QY      121 HLKRYVGRILHLKAKESHCWTIVRVEILENFYINRLTGYLRLN 166
Db      138 HLKRYVGRILHLKAKESHCWTIVRVEILENFYINRLTGYLRLN 183
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Job time : 33.2 secs

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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 Seconds
(without alignments)
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Title: US-09-832-659A-55
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Scoring table: BLOSUM62

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Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	829	95.6	166	4	US-09-397-992A-7
2	829	95.6	166	4	US-09-569-722A-1
3	829	95.6	166	4	US-09-648-569A-2
4	829	95.6	166	4	US-09-971-843-7
5	829	95.6	166	4	US-09-403-532E-1
6	829	95.6	166	4	US-09-462-941-5
7	829	95.6	166	6	5514567-4
8	829	95.6	187	3	US-09-206-903A-9
9	829	95.6	187	3	US-08-406-030A-30
10	829	95.6	187	3	US-09-202-122-9
11	829	95.6	187	3	US-09-206-935-7
12	829	95.6	187	4	US-08-286-336-7
13	829	95.6	187	4	US-09-487-792-4
14	829	95.6	187	4	US-09-908-594-4
15	829	95.6	187	4	US-09-919-622A-9
16	829	95.6	187	6	5514567-1
17	829	95.6	415	4	US-09-215-212-14
18	827	95.4	166	2	US-08-477-310A-1
19	824	95.0	166	1	US-08-213-448-1
20	824	95.0	166	3	US-08-912-768-1
21	824	95.0	166	4	US-09-569-722A-4
22	824	95.0	166	4	US-09-569-722A-18
23	824	95.0	166	5	PCT-US95-03206-1
24	824	95.0	187	3	US-08-912-768-3
25	822	94.8	166	4	US-09-487-792-21
26	822	94.8	166	4	US-09-908-594-21
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28      820      94.6      166      4      US-09-331-260-2      Sequence 2, Appli
29      819      94.5      166      4      US-09-569-722A-5      Sequence 5, Appli
30      812      93.7      187      6      5326859-1      Patent No. 5326859
31      810      93.4      166      4      US-09-569-722A-13      Sequence 13, Appl
32      810      93.4      166      4      US-09-569-722A-19      Sequence 19, Appl
33      808      93.2      166      4      US-09-403-532E-23      Sequence 23, Appl
34      805      92.8      166      4      US-09-569-722A-8      Sequence 8, Appli
35      805      92.8      166      4      US-09-569-722A-16      Sequence 16, Appl
36      803      92.6      166      4      US-09-569-722A-6      Sequence 6, Appli
37      802      92.3      166      4      US-09-569-722A-24      Sequence 24, Appl
38      800      92.3      166      4      US-09-569-722A-14      Sequence 14, Appl
39      799      92.2      166      4      US-09-569-722A-7      Sequence 7, Appli
40      799      92.2      166      4      US-09-569-722A-12      Sequence 12, Appl
41      799      92.2      166      4      US-09-569-722A-17      Sequence 17, Appl
42      798      92.0      166      4      US-09-569-722A-22      Sequence 22, Appl
43      798      92.0      166      4      US-09-403-532E-24      Sequence 24, Appl
44      797      91.9      166      4      US-09-569-722A-15      Sequence 15, Appl
45      794      91.6      166      4      US-09-569-722A-20      Sequence 20, Appl

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ALIGNMENTS

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RESULT 1
US-09-397-992A-7
; Sequence 7, Application US/09397992A
; Patent No. 6329175
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kinsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46
; CURRENT APPLICATION NUMBER: US/09397,992A
; PRIOR FILING DATE: 1999-09-16
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-397-992A-7

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Query Match      95.6%; Score 829; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 4.7e-85;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

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Db      1 MSYNLLGLFQSSNFQCKLWQLNGRLEYCLKDRMNFDPFEEIKQLQFOFKEDAALTIY 60
QY      61 EMLQNFIFAIFRODSSSTGWNFTIVENLLANYVQHINHLKTVLEEKLEKEATAGAMSAL 120
Db      61 EMLQNFIFAIFRODSSSTGWNFTIVENLLANYVQHINHLKTVLEEKLEKEDEFTRGKMGSL 120
QY      121 HLKRYGRIILHYLKAKEYSHCAWTVRVEILNFRINRLTGYLRN 166
Db      121 HLKRYGRIILHYLKAKEYSHCAWTVRVEILNFRINRLTGYLRN 166

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RESULT 2
US-09-569-722A-1
; Sequence 1, Application US/09569722A
; Patent No. 6514729
; GENERAL INFORMATION:
; APPLICANT: Bentzien, Joerg M

```

; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY
 ; FILE REFERENCE: A-68059-1/RFT/RMS/RMK
 ; CURRENT APPLICATION NUMBER: US/09/569,722A
 ; CURRENT FILING DATE: 2000-05-11
 ; PRIOR APPLICATION NUMBER: US 60/133,785
 ; PRIOR FILING DATE: 1999-05-12
 ; NUMBER OF SEQ ID NOS: 24
 ; SOFTWARE: Patent in version 3.1
 ; SEQ ID NO 1
 ; LENGTH: 166
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-569-722A-1

Query Match 95.6%; Score 829; DB 4; Length 166;
 Best Local Similarity 95.8%; Pred. No. 4.7e-85;
 Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;
 QY 1 MSYNLLGFLQSSNFQCCQKLLQNLGRLEYCLKDRMNFDPPEIKLOQFOKEDAAALTY 60
 Db 1 MSYNLLGFLQSSNFQCCQKLLQNLGRLEYCLKDRMNFDPPEIKLOQFOKEDAAALTY 60
 QY 61 EMLQNFPAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAASAL 120
 Db 61 EMLQNFPAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAASAL 120
 QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRNLTGYLRN 166
 Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRNLTGYLRN 166

RESULT 3

US-09-648-569A-2
 ; Sequence 2, Application US/09648569A
 ; Patent No. 6531122
 ; GENERAL INFORMATION:
 ; APPLICANT: Pedersen, A.H., et al.
 ; APPLICANT: Maxygen Aps
 ; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
 ; FILE REFERENCE: 0202us810
 ; CURRENT APPLICATION NUMBER: US/09/648,569A
 ; CURRENT FILING DATE: 2000-08-25
 ; NUMBER OF SEQ ID NOS: 45
 ; SOFTWARE: Patent in Ver. 2.1
 ; SEQ ID NO 2
 ; LENGTH: 166
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-648-569A-2

Query Match 95.6%; Score 829; DB 4; Length 166;
 Best Local Similarity 95.8%; Pred. No. 4.7e-85;
 Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;
 QY 1 MSYNLLGFLQSSNFQCCQKLLQNLGRLEYCLKDRMNFDPPEIKLOQFOKEDAAALTY 60
 Db 1 MSYNLLGFLQSSNFQCCQKLLQNLGRLEYCLKDRMNFDPPEIKLOQFOKEDAAALTY 60
 QY 61 EMLQNFPAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAASAL 120
 Db 61 EMLQNFPAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAASAL 120
 QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRNLTGYLRN 166
 Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRNLTGYLRN 166

RESULT 4

US-09-971-843-7
 ; Sequence 7, Application US/09971843
 ; Patent No. 6544505
 ; GENERAL INFORMATION:
 ; APPLICANT: Conklin, Darrell C.

; APPLICANT: Grant, Francis J.
 ; APPLICANT: Rixon, Mark W.
 ; APPLICANT: Kindsvogel, Wayne
 ; TITLE OF INVENTION: Interferon-epsilon
 ; FILE REFERENCE: 98-46DI
 ; CURRENT APPLICATION NUMBER: US/09/971,843
 ; CURRENT FILING DATE: 2001-10-04
 ; PRIOR APPLICATION NUMBER: 60/101,012
 ; PRIOR FILING DATE: 1998-09-18
 ; PRIOR APPLICATION NUMBER: 60/118,578
 ; PRIOR FILING DATE: 1999-02-05
 ; PRIOR APPLICATION NUMBER: 60/142,766
 ; PRIOR FILING DATE: 1999-07-08
 ; PRIOR APPLICATION NUMBER: 09/397,992
 ; PRIOR FILING DATE: 1999-09-16
 ; NUMBER OF SEQ ID NOS: 33
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 7
 ; LENGTH: 166
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-971-843-7

Query Match 95.6%; Score 829; DB 4; Length 166;
 Best Local Similarity 95.8%; Pred. No. 4.7e-85;
 Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;
 QY 1 MSYNLLGFLQSSNFQCCQKLLQNLGRLEYCLKDRMNFDPPEIKLOQFOKEDAAALTY 60
 Db 1 MSYNLLGFLQSSNFQCCQKLLQNLGRLEYCLKDRMNFDPPEIKLOQFOKEDAAALTY 60
 QY 61 EMLQNFPAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAASAL 120
 Db 61 EMLQNFPAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAASAL 120
 QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRNLTGYLRN 166
 Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRNLTGYLRN 166

RESULT 5

US-09-403-532E-1
 ; Sequence 1, Application US/09403532E
 ; Patent No. 6572853
 ; GENERAL INFORMATION:
 ; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
 ; APPLICANT: Schneider-Freesenius, Christian
 ; APPLICANT: Otto, Bernd
 ; APPLICANT: Maschutza, Gero
 ; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
 ; FILE REFERENCE: 127-65050
 ; CURRENT APPLICATION NUMBER: US/09/403,532E
 ; CURRENT FILING DATE: 2000-02-22
 ; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
 ; PRIOR FILING DATE: 1998-04-16
 ; PRIOR APPLICATION NUMBER: DE 19717864.2
 ; PRIOR FILING DATE: 1997-04-23
 ; NUMBER OF SEQ ID NOS: 26
 ; SOFTWARE: Patent in version 3.1
 ; SEQ ID NO 1
 ; LENGTH: 166
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-403-532E-1

Query Match 95.6%; Score 829; DB 4; Length 166;
 Best Local Similarity 95.8%; Pred. No. 4.7e-85;
 Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;
 QY 1 MSYNLLGFLQSSNFQCCQKLLQNLGRLEYCLKDRMNFDPPEIKLOQFOKEDAAALTY 60
 Db 1 MSYNLLGFLQSSNFQCCQKLLQNLGRLEYCLKDRMNFDPPEIKLOQFOKEDAAALTY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKAAATAGAAMSAL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGKLMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166

RESULT 6

US-09-462-941-5
; Sequence 5, Application US/09462941
; Patent No. 6608183
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/09/462,941
; CURRENT FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-462-941-5

Query Match 95.6%; Score 829; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 4.7e-85;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCOKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFKEDAALTY 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKAAATAGAAMSAL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGKLMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166

RESULT 7

5514567-4
; Patent No. 5514567
; APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI,
; TADATSUGU
; TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID
; NUMBER OF SEQUENCES: 5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/400,179
; FILING DATE: 06-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 389,922
; FILING DATE: 18-JUN-1982
; APPLICATION NUMBER: 201,359
; FILING DATE: 27-OCT-1980
; SEQ ID NO: 4
; LENGTH: 166
5514567-4

Query Match 95.6%; Score 829; DB 6; Length 166;
Best Local Similarity 95.8%; Pred. No. 4.7e-85;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCOKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFKEDAALTY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKAAATAGAAMSAL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGKLMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166

RESULT 8

US-09-206-903A-9
; Sequence 9, Application US/09206903A
; Patent No. 6200780
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul J.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: NOVEL TYPE I INTERPERONS
; FILE REFERENCE: P1224-2R1
; CURRENT APPLICATION NUMBER: US/09/206,903A
; CURRENT FILING DATE: 1998-12-07
; PRIOR APPLICATION NUMBER: US 60/106,463
; PRIOR FILING DATE: 1998-10-30
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-903A-9

Query Match 95.6%; Score 829; DB 3; Length 187;
Best Local Similarity 95.8%; Pred. No. 5.6e-85;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFKEDAALTY 60
DB 22 MSYNLLGFLQSSNFQCCOKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFKEDAALTY 81
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKAAATAGAAMSAL 120
DB 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGKLMSSL 141
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
DB 142 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 187

RESULT 9

US-08-406-030A-30
; Sequence 30, Application US/08406030A
; Patent No. 6270989
; GENERAL INFORMATION:
; APPLICANT: Treco, Douglas A.
; APPLICANT: Heartlein, Michael W.
; APPLICANT: Hauge, Brian M.
; APPLICANT: Selden, Richard F
; TITLE OF INVENTION: Protein Production and Delivery
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:

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/
/ APPLICATION NUMBER: US/08/406,030A
/ FILING DATE: 17-MAR-1995
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/243,391
/ FILING DATE: 13-MAY-1994
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/985,586
/ FILING DATE: 03-DEC-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/911,533
/ FILING DATE: 10-JUL-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/787,840
/ FILING DATE: 05-NOV-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/789,188
/ FILING DATE: 05-NOV-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: PCT/US93/11704
/ FILING DATE: 02-DEC-1993
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: PCT/US92/09627
/ FILING DATE: 05-NOV-1992
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Granahan, Patricia
/ REGISTRATION NUMBER: 32,227
/ REFERENCE/DOCKET NUMBER: TKT95-01
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 861-6240
/ TELEFAX: (617) 861-9540
/ INFORMATION FOR SEQ ID NO: 30:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 187 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-406-030A-30

Query Match          95.6%; Score 829; DB 3; Length 187;
Best Local Similarity 95.8%; Pred. No. 5.6e-85;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 60
Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 81
QY 61 EMLQNIFAIHQDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAMSAL 120
Db 82 EMLQNIFAIHQDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAMSAL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 166
Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 187

RESULT 10
US-09-202-122-9
/ Sequence 9, Application US/09202122
/ Patent No. 6239869
/ GENERAL INFORMATION:
/ APPLICANT: Chen, Jian
/ APPLICANT: Godowski, Paul
/ APPLICANT: Wood, William I.
/ APPLICANT: Zhang, Dong-Xiao
/ TITLE OF INVENTION: HUMAN INTERFERON-BPSILON: A TYPE I INTERFERON
/ FILE REFERENCE: P1224R2 (filed)
/ CURRENT APPLICATION NUMBER: US/09/202,122
/ CURRENT FILING DATE: 1999-03-04
/ PRIOR APPLICATION NUMBER: PCT/US98/25672
/ PRIOR FILING DATE: 1998-12-03
/ NUMBER OF SEQ ID NOS: 12
/ SEQ ID NO 9

Query Match          95.6%; Score 829; DB 3; Length 187;
Best Local Similarity 95.8%; Pred. No. 5.6e-85;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

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Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 81
QY 61 EMLQNIFAIHQDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAMSAL 120
Db 82 EMLQNIFAIHQDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAMSAL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 166
Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 187

RESULT 11
US-09-206-935-7
/ Sequence 7, Application US/09206935
/ Patent No. 6239877
/ GENERAL INFORMATION:
/ APPLICANT: Chen, Jian
/ APPLICANT: Godowski, Paul
/ APPLICANT: Wood, William I.
/ APPLICANT: Zhang, Dong-Xiao
/ TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
/ FILE REFERENCE: 11669.50US05
/ CURRENT APPLICATION NUMBER: US/09/206,935
/ CURRENT FILING DATE: 1998-12-07
/ EARLIER APPLICATION NUMBER: 60/084,045
/ EARLIER FILING DATE: 1998-05-04
/ NUMBER OF SEQ ID NOS: 24
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 7

Query Match          95.6%; Score 829; DB 3; Length 187;
Best Local Similarity 95.8%; Pred. No. 5.6e-85;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

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Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 81
QY 61 EMLQNIFAIHQDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAMSAL 120
Db 82 EMLQNIFAIHQDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAMSAL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 166
Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 187

RESULT 12
US-09-206-936-7
/ Sequence 7, Application US/09206936A
/ Patent No. 6300475
/ GENERAL INFORMATION:
/ APPLICANT: Chen, Jian
/ APPLICANT: Wood, William I.
/ TITLE OF INVENTION: NO. 6300475el Inteferon
/ FILE REFERENCE: P1224R1
/ CURRENT APPLICATION NUMBER: US/09/206,936A
/ CURRENT FILING DATE: 1998-12-07
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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-936-7

Query Match          95.6%; Score 829; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 5.6e-85;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 81
QY 61 EMLQNIFAIFQDSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEAATAGAMSAL 120
DB 82 EMLQNIFAIFQDSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEAATAGAMSAL 141
QY 121 HKRYGGRIILHYLKAKEYSHCAWTVRVEILRNRYFNRLTGYLRN 166
DB 142 HKRYGGRIILHYLKAKEYSHCAWTVRVEILRNRYFNRLTGYLRN 187

RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: P482P1
; CURRENT APPLICATION NUMBER: US/09/487,792
; CURRENT FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-487-792-4

Query Match          95.6%; Score 829; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 5.6e-85;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 81
QY 61 EMLQNIFAIFQDSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEAATAGAMSAL 120
DB 82 EMLQNIFAIFQDSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEAATAGAMSAL 141
QY 121 HKRYGGRIILHYLKAKEYSHCAWTVRVEILRNRYFNRLTGYLRN 166
DB 142 HKRYGGRIILHYLKAKEYSHCAWTVRVEILRNRYFNRLTGYLRN 187

RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lafleur, et al.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: P482P2
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; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/292,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-908-594-4

Query Match          95.6%; Score 829; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 5.6e-85;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 81
QY 61 EMLQNIFAIFQDSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEAATAGAMSAL 120
DB 82 EMLQNIFAIFQDSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEAATAGAMSAL 141
QY 121 HKRYGGRIILHYLKAKEYSHCAWTVRVEILRNRYFNRLTGYLRN 166
DB 142 HKRYGGRIILHYLKAKEYSHCAWTVRVEILRNRYFNRLTGYLRN 187

RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-622A-9

Query Match          95.6%; Score 829; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 5.6e-85;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 81
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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 seconds
(without alignments)
669.524 Million cell updates/sec

Title: US-09-832-659A-54

Perfect score: 867

Sequence: 1 MSYNLLGLQSSNFQCKL.....RVEILNFYRINLTGYLRN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*

- 1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*
- 2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
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- 4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
- 5: /cgn2_6/ptodata/2/iaa/PTCUS_COMB.pep.*
- 6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	829	95.6	166	4	US-09-397-992A-7
2	829	95.6	166	4	US-09-569-722A-1
3	829	95.6	166	4	US-09-648-569A-2
4	829	95.6	166	4	US-09-971-843-7
5	829	95.6	166	4	US-09-403-532E-1
6	829	95.6	166	4	US-09-462-941-5
7	829	95.6	166	6	5514567-4
8	829	95.6	187	3	US-09-206-903A-9
9	829	95.6	187	3	US-08-406-030A-30
10	829	95.6	187	3	US-09-202-132-9
11	829	95.6	187	3	US-09-206-935-7
12	829	95.6	187	4	US-09-208-936-7
13	829	95.6	187	4	US-09-487-782-4
14	829	95.6	187	4	US-09-908-594-4
15	829	95.6	187	4	US-09-919-622A-9
16	829	95.6	187	6	5514567-1
17	829	95.6	415	4	US-09-215-212-14
18	827	95.4	166	2	US-08-477-310A-1
19	824	95.0	166	1	US-08-213-448-1
20	824	95.0	166	3	US-08-912-768-1
21	824	95.0	166	4	US-09-569-722A-4
22	824	95.0	166	4	US-09-569-722A-18
23	824	95.0	166	5	PCT-US95-03206-1
24	824	95.0	187	3	US-08-912-768-3
25	822	94.8	166	4	US-09-487-792-21
26	822	94.8	166	4	US-09-908-594-21
27	821	94.7	187	1	US-08-026-758-22

28	820	94.6	166	4	US-09-331-260-2	Sequence 2, Appli
29	819	94.5	166	4	US-09-569-722A-5	Sequence 5, Appli
30	812	93.7	187	6	5326859-1	Patent No. 5326859
31	810	93.4	166	4	US-09-569-722A-13	Sequence 13, Appl
32	810	93.4	166	4	US-09-569-722A-19	Sequence 19, Appl
33	805	92.8	166	4	US-09-569-722A-8	Sequence 8, Appli
34	805	92.8	166	4	US-09-569-722A-16	Sequence 16, Appli
35	803	92.6	166	4	US-09-569-722A-6	Sequence 6, Appli
36	802	92.5	166	4	US-09-569-722A-24	Sequence 24, Appl
37	800	92.3	166	4	US-09-569-722A-14	Sequence 14, Appl
38	799	92.2	166	4	US-09-569-722A-7	Sequence 7, Appli
39	799	92.2	166	4	US-09-569-722A-12	Sequence 12, Appl
40	799	92.2	166	4	US-09-569-722A-17	Sequence 17, Appl
41	798	92.0	166	4	US-09-569-722A-22	Sequence 22, Appl
42	797	91.9	166	4	US-09-569-722A-15	Sequence 15, Appl
43	794	91.6	166	4	US-09-569-722A-20	Sequence 20, Appl
44	793	91.5	166	4	US-09-569-722A-11	Sequence 11, Appl
45	792	91.3	166	4	US-09-569-722A-23	Sequence 23, Appl

ALIGNMENTS

RESULT 1
US-09-397-992A-7
; Sequence 7, Application US/09397992A
; Patent No. 6329175
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvoegel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46
; CURRENT APPLICATION NUMBER: US/09/397,992A
; CURRENT FILING DATE: 1999-09-16
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; TYPE: PRT
; LENGTH: 166
; ORGANISM: Homo sapiens
US-09-397-992A-7

Query Match	95.6%	Score 829;	DB 4;	Length 166;
Best Local Similarity	95.8%	Pred No. 6.2e-87;		
Matches 159;	Conservative	0;	Mismatches 7;	Indels 0;
Gaps	0;			
Qy	1	MSYNLLGLQSSNFQCKLWQNGRLEYCLKDRNFDIPEIKLOQFOKEDALTYI	60	
Db	1	MSYNLLGLQSSNFQCKLWQNGRLEYCLKDRNFDIPEIKLOQFOKEDALTYI	60	
Qy	61	EMLQNTFAIPRODSSTGNETIVENLLANVYHQNHLTVLAALAAADFTRGALMSSL	120	
Db	61	EMLQNTFAIPRODSSTGNETIVENLLANVYHQNHLTVLAALAAADFTRGALMSSL	120	
Qy	121	HLKRYVGRILHYLKAKEYSHCAWTVRVEILNFYRINLTGYLRN	166	
Db	121	HLKRYVGRILHYLKAKEYSHCAWTVRVEILNFYRINLTGYLRN	166	

RESULT 2
US-09-569-722A-1
; Sequence 1, Application US/09569722A
; Patent No. 6514729
; GENERAL INFORMATION:
; APPLICANT: Bentzien, Joerg M

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/ TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY
/ FILE REFERENCE: A-68059-1/RFT/RMS/RMK
/ CURRENT APPLICATION NUMBER: US/09/569,722A
/ CURRENT FILING DATE: 2000-05-11
/ PRIOR APPLICATION NUMBER: US 60/133,785
/ PRIOR FILING DATE: 1999-08-12
/ NUMBER OF SEQ ID NOS: 24
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 1
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-569-722A-1

Query Match          95.6%; Score 829; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.2e-87;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

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DB 1 MSYNLLGFLQSSNFQCCQKLLQWLNQRLCYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLAALAAADFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120

QY 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLEN 166
DB 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLEN 166

RESULT 3
US-09-648-569A-2
/ Sequence 2, Application US/09648569A
/ Patent No. 6531122
/ GENERAL INFORMATION:
/ APPLICANT: Pedersen, A.H., et al.
/ APPLICANT: Maxygen Aps
/ TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
/ FILE REFERENCE: 0202us810
/ CURRENT APPLICATION NUMBER: US/09/648,569A
/ CURRENT FILING DATE: 2000-08-25
/ NUMBER OF SEQ ID NOS: 45
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 2
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-648-569A-2

Query Match          95.6%; Score 829; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.2e-87;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

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QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLAALAAADFTRGALMSSL 120
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QY 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLEN 166
DB 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLEN 166

RESULT 4
US-09-971-843-7
/ Sequence 7, Application US/09971843
/ Patent No. 6544505
/ GENERAL INFORMATION:
/ APPLICANT: Conklin, Darrell C.
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/ APPLICANT: Grant, Francis J.
/ APPLICANT: Rixon, Mark W.
/ APPLICANT: Kindsvogel, Wayne
/ TITLE OF INVENTION: Interferon-epsilon
/ FILE REFERENCE: 98-46Di
/ CURRENT APPLICATION NUMBER: US/09/971,843
/ CURRENT FILING DATE: 2001-10-04
/ PRIOR APPLICATION NUMBER: 60/101,012
/ PRIOR FILING DATE: 1998-09-18
/ PRIOR APPLICATION NUMBER: 60/118,578
/ PRIOR FILING DATE: 1999-02-05
/ PRIOR APPLICATION NUMBER: 60/142,766
/ PRIOR FILING DATE: 1999-07-08
/ PRIOR APPLICATION NUMBER: 09/397,992
/ PRIOR FILING DATE: 1999-09-16
/ NUMBER OF SEQ ID NOS: 33
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 7
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-971-843-7

Query Match          95.6%; Score 829; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.2e-87;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLQWLNQRLCYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLQWLNQRLCYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLAALAAADFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120

QY 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLEN 166
DB 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLEN 166

RESULT 5
US-09-403-532B-1
/ Sequence 1, Application US/09403532B
/ Patent No. 6572853
/ GENERAL INFORMATION:
/ APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
/ APPLICANT: Schneider-Presenius, Christian
/ APPLICANT: Otto, Bernd
/ APPLICANT: Maschutza, Gero
/ TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
/ FILE REFERENCE: 127-65050
/ CURRENT APPLICATION NUMBER: US/09/403,532B
/ CURRENT FILING DATE: 2000-02-22
/ PRIOR APPLICATION NUMBER: PCT/EP/98/02238
/ PRIOR FILING DATE: 1998-04-16
/ PRIOR APPLICATION NUMBER: DE 19717864.2
/ PRIOR FILING DATE: 1997-04-23
/ NUMBER OF SEQ ID NOS: 26
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 1
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-403-532B-1

Query Match          95.6%; Score 829; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.2e-87;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

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; APPLICATION NUMBER: US/08/406,030A
; FILING DATE: 17-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/243,391
; FILING DATE: 13-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/985,586
; FILING DATE: 03-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/911,533
; FILING DATE: 10-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,840
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,188
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/11704
; FILING DATE: 02-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/09627
; FILING DATE: 05-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: TKT95-01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 187 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-406-030A-30

Query Match      95.6%; Score 829; DB 3; Length 187;
Best Local Similarity 95.8%; Pred. No. 7.4e-87;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLVCYCKDRMNFDPPEIKOLOQFOKEDAAITY 60
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QY 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLAAKLAAADFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 141
QY 121 HLKRYGRILHYLKAKYSHCAWTIVRVEILRNFRINLTGYLRN 166
Db 142 HLKRYGRILHYLKAKYSHCAWTIVRVEILRNFRINLTGYLRN 187

RESULT 11
US-09-206-935-7
; Sequence 7, Application US/09206935
; Patent No. 6299877
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: 11669.50US05
; CURRENT APPLICATION NUMBER: US/09/206,935
; CURRENT FILING DATE: 1998-12-07
; EARLIER APPLICATION NUMBER: 60/084,045
; EARLIER FILING DATE: 1998-05-04
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-206-935-7

Query Match      95.6%; Score 829; DB 3; Length 187;
Best Local Similarity 95.8%; Pred. No. 7.4e-87;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLVCYCKDRMNFDPPEIKOLOQFOKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLVCYCKDRMNFDPPEIKOLOQFOKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLAAKLAAADFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 141
QY 121 HLKRYGRILHYLKAKYSHCAWTIVRVEILRNFRINLTGYLRN 166
Db 142 HLKRYGRILHYLKAKYSHCAWTIVRVEILRNFRINLTGYLRN 187

RESULT 12
US-09-206-936-7
; Sequence 7, Application US/09206936A
; Patent No. 6300475
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2 (filed)
; CURRENT APPLICATION NUMBER: US/09/202,122
; CURRENT FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-936-7

Query Match 95.6%; Score 829; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 7.4e-87;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 81

QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLAAKLAADFTRGALMSSL 120
DB 82 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 141

QY 121 HLKRYYGRIHLVYLKAKESHCWNTIVRVEILRNFRINLTGYLRN 166
DB 142 HLKRYYGRIHLVYLKAKESHCWNTIVRVEILRNFRINLTGYLRN 187

RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P1
; CURRENT APPLICATION NUMBER: US/09/487,792
; CURRENT FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-487-792-4

Query Match 95.6%; Score 829; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 7.4e-87;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 81

QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLAAKLAADFTRGALMSSL 120
DB 82 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 141

QY 121 HLKRYYGRIHLVYLKAKESHCWNTIVRVEILRNFRINLTGYLRN 166
DB 142 HLKRYYGRIHLVYLKAKESHCWNTIVRVEILRNFRINLTGYLRN 187

RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lafleur, et al.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2

; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/292,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-908-594-4

Query Match 95.6%; Score 829; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 7.4e-87;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 81

QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLAAKLAADFTRGALMSSL 120
DB 82 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 141

QY 121 HLKRYYGRIHLVYLKAKESHCWNTIVRVEILRNFRINLTGYLRN 166
DB 142 HLKRYYGRIHLVYLKAKESHCWNTIVRVEILRNFRINLTGYLRN 187

RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-622A-9

Query Match 95.6%; Score 829; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 7.4e-87;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 81

QY 61 EMLQNEIFAFRODSSSTGNETIVENLLANVYHOINHLKTVLAAKLAADFTGALMSSL 120
Db |||||
QY 82 EMLQNEIFAFRODSSSTGNETIVENLLANVYHOINHLKTVLEEKLEKEDFTGKLMSSL 141
Db |||||
QY 121 HLKRYYGRILHYLKAKESYSHCAWTIVRVEILNFYRINRLTGYLEN 166
Db |||||
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Listing first 45 summaries

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18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	842	97.1	166	10	US-09-832-658-24
2	829	95.6	166	10	US-09-971-843-7
3	829	95.6	166	12	US-09-732-436-16
4	829	95.6	166	14	US-10-246-932-1
5	829	95.6	166	14	US-10-186-962-1
6	829	95.6	166	14	US-10-400-377-5
7	829	95.6	166	14	US-10-400-708-5
8	829	95.6	166	14	US-10-084-706-2
9	829	95.6	166	14	US-10-298-148-5
10	829	95.6	166	14	US-10-325-720-2
11	829	95.6	166	14	US-10-351-189-2
12	829	95.6	166	14	US-10-449-456-1
13	829	95.6	166	15	US-10-609-296-2
14	829	95.6	166	16	US-10-448-667-1
15	829	95.6	183	9	US-09-832-659-4

16	829	95.6	183	10	US-09-832-658-2	Sequence 2, Appli
17	829	95.6	186	12	US-10-449-831A-146	Sequence 146, App
18	829	95.6	187	9	US-09-788-552-1	Sequence 1, Appli
19	829	95.6	187	9	US-09-919-622A-9	Sequence 9, Appli
20	829	95.6	187	12	US-10-411-037-6	Sequence 6, Appli
21	829	95.6	187	12	US-09-681-050-17	Sequence 17, Appli
22	829	95.6	187	12	US-10-411-026-6	Sequence 6, Appli
23	829	95.6	187	13	US-10-004-201-2	Sequence 2, Appli
24	829	95.6	187	14	US-10-096-373-2	Sequence 9, Appli
25	829	95.6	187	14	US-10-418-038-9	Sequence 6, Appli
26	829	95.6	187	16	US-10-410-962-6	Sequence 6, Appli
27	829	95.6	187	16	US-10-411-049-6	Sequence 11, Appli
28	829	95.6	199	12	US-09-766-920B-11	Sequence 192, App
29	829	95.6	234	12	US-10-448-831A-192	Sequence 2, Appli
30	829	95.6	399	9	US-09-832-659-2	Sequence 1, Appli
31	827	95.4	166	12	US-10-035-420-1	Sequence 1, Appli
32	827	95.4	166	12	US-10-010-448-1	Sequence 7, Appli
33	826	95.3	187	9	US-09-927-850-7	Sequence 2, Appli
34	822	94.8	166	9	US-09-788-552-2	Sequence 42, Appli
35	820	94.6	418	9	US-09-832-659-42	Sequence 44, Appli
36	820	94.6	423	9	US-09-832-659-44	Sequence 2, Appli
37	819	94.5	166	14	US-10-246-932-2	Sequence 1, Appli
38	818	94.3	166	15	US-10-168-956A-1	Sequence 2, Appli
39	817	94.2	166	12	US-10-035-420-2	Sequence 2, Appli
40	817	94.2	166	12	US-10-010-448-2	Sequence 23, Appli
41	789	91.0	166	14	US-10-449-456-23	Sequence 23, Appli
42	789	91.0	166	16	US-10-448-667-23	Sequence 4, Appli
43	789	91.0	187	9	US-09-725-433-4	Sequence 12, Appli
44	789	91.0	187	14	US-10-284-740-12	Sequence 56, Appli
45	784	90.4	166	14	US-10-084-706-56	

ALIGNMENTS

RESULT 1
US-09-832-658-24
; Sequence 24, Application US/09832658
; Publication No. US20030021765A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; APPLICANT: Pepinsky, Blake
; APPLICANT: Runkel, Laura
; APPLICANT: Rickelmaier, Margot
; APPLICANT: Whitty, Adrian
; APPLICANT: Hochman, Paula
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a
; TITLE OF INVENTION: and Uses
; FILE REFERENCE: A06SPCT
; CURRENT APPLICATION NUMBER: US/09/832,658
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/104,572
; PRIOR FILING DATE: 1998-10-16
; PRIOR APPLICATION NUMBER: 60/120,161
; PRIOR FILING DATE: 1999-02-16
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 166
; TYPE: PRT
; ORGANISM: human
US-09-832-658-24

Query Match 97.1%; Score 842; DB 10; Length 166;
Best Local Similarity 97.0%; Pred. No. 2.7e-82;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
Qy 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRNFDIPBEIKOLOQFOKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRNFDIPBEIKOLOQFOKEDAAITY 60
Qy 61 EMLONTFAIPQDSSTGTNETIVENLLANVTHQINHLKTVLAAKLAADFFRGALMSSL 120

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Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
Qy 121 HLKRYGRIHLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRIHLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match 95.6%; Score 829; DB 10; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQRSSNFQCKLLMQLNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITTY 60
Db 1 MSYNLLGFLQRSSNFQCKLLMQLNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITTY 60

Qy 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLAALAAADFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGKLMSSL 120

Qy 121 HLKRYGRIHLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRIHLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Suhirdas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT
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; ORGANISM: Homo sapiens
US-09-732-436-16

Query Match 95.6%; Score 829; DB 12; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

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Db 1 MSYNLLGFLQRSSNFQCKLLMQLNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITTY 60

Qy 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLAALAAADFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGKLMSSL 120

Qy 121 HLKRYGRIHLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRIHLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorraine
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PP18399.002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match 95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQRSSNFQCKLLMQLNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITTY 60
Db 1 MSYNLLGFLQRSSNFQCKLLMQLNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITTY 60

Qy 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLAALAAADFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGKLMSSL 120

Qy 121 HLKRYGRIHLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRIHLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTUP, Joern
; APPLICANT: Maxysen Aps
; APPLICANT: Maxysen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30
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/ PRIOR APPLICATION NUMBER: 60/357,945
/ PRIOR FILING DATE: 2002-02-19
/ NUMBER OF SEQ ID NOS: 12
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 1
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-186-962-1

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

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DB 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
QY 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQLNKTVAALAAADFTRGALMSSL 120
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QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYFINRLTGYLNRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYFINRLTGYLNRN 166

RESULT 6
US-10-400-377-5
/ Sequence 5, Application US/10400377
/ Publication No. US20030162949A1
/ GENERAL INFORMATION:
/ APPLICANT: Cox III, George N
/ TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
/ FILE REFERENCE: 4152-1-PUS
/ CURRENT APPLICATION NUMBER: US/10/400,377
/ CURRENT FILING DATE: 2003-03-26
/ PRIOR APPLICATION NUMBER: US/09/462,941
/ PRIOR FILING DATE: 2000-01-14
/ PRIOR FILING DATE: 1997-07-14
/ NUMBER OF SEQ ID NOS: 41
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 5
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

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DB 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
QY 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQLNKTVAALAAADFTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQLNKTVAALAAADFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYFINRLTGYLNRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYFINRLTGYLNRN 166

RESULT 6
US-10-400-377-5
/ Sequence 5, Application US/10400377
/ Publication No. US20030162949A1
/ GENERAL INFORMATION:
/ APPLICANT: Cox III, George N
/ TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
/ FILE REFERENCE: 4152-1-PUS
/ CURRENT APPLICATION NUMBER: US/10/400,377
/ CURRENT FILING DATE: 2003-03-26
/ PRIOR APPLICATION NUMBER: US/09/462,941
/ PRIOR FILING DATE: 2000-01-14
/ PRIOR FILING DATE: 1997-07-14
/ NUMBER OF SEQ ID NOS: 41
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 5
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
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DB 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQLNKTVAALAAADFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYFINRLTGYLNRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYFINRLTGYLNRN 166

RESULT 7
US-10-400-708-5
/ Sequence 5, Application US/10400708
/ Publication No. US20030168665A1
/ GENERAL INFORMATION:
/ APPLICANT: Cox III, George N
/ TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
/ FILE REFERENCE: 4152-1-PUS
/ CURRENT APPLICATION NUMBER: US/10/400,708
/ CURRENT FILING DATE: 2003-03-26
/ PRIOR APPLICATION NUMBER: US/09/462,941
/ PRIOR FILING DATE: 2000-01-14
/ PRIOR FILING DATE: 1997-07-14
/ NUMBER OF SEQ ID NOS: 41
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 5
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-400-708-5

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
QY 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQLNKTVAALAAADFTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQLNKTVAALAAADFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYFINRLTGYLNRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYFINRLTGYLNRN 166

RESULT 7
US-10-400-708-5
/ Sequence 5, Application US/10400708
/ Publication No. US20030168665A1
/ GENERAL INFORMATION:
/ APPLICANT: Cox III, George N
/ TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
/ FILE REFERENCE: 4152-1-PUS
/ CURRENT APPLICATION NUMBER: US/10/400,708
/ CURRENT FILING DATE: 2003-03-26
/ PRIOR APPLICATION NUMBER: US/09/462,941
/ PRIOR FILING DATE: 2000-01-14
/ PRIOR FILING DATE: 1997-07-14
/ NUMBER OF SEQ ID NOS: 41
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 5
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-400-708-5

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
QY 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQLNKTVAALAAADFTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQLNKTVAALAAADFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYFINRLTGYLNRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYFINRLTGYLNRN 166

RESULT 8
US-10-084-706-2
/ Sequence 2, Application US/10084706
/ Publication No. US20030170206A1
/ GENERAL INFORMATION:
/ APPLICANT: RASMUSSEN, Poul Baad
/ APPLICANT: DRUSTRUP, Jorn
/ APPLICANT: RASMUSSEN, Grethe
/ APPLICANT: PEDERSEN, Anders Hjelholt
/ APPLICANT: SCHAMBYE, Hans Thalsg+rd
/ APPLICANT: ANDERSEN, Kim Vilbourn
/ APPLICANT: BORN, Claus
/ APPLICANT: Maxysen Holdings Ltd.
/ TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
/ FILE REFERENCE: 0238us410
/ CURRENT APPLICATION NUMBER: US/10/084,706
/ CURRENT FILING DATE: 2002-02-26
/ PRIOR APPLICATION NUMBER: US 60/272,116
/ PRIOR FILING DATE: 2001-02-27
/ PRIOR APPLICATION NUMBER: US 60/343,436
/ PRIOR FILING DATE: 2001-12-21
/ PRIOR APPLICATION NUMBER: US 60/302,140
/ PRIOR FILING DATE: 2001-06-29
/ PRIOR APPLICATION NUMBER: US 60/316,170
/ PRIOR FILING DATE: 2001-08-30
/ PRIOR APPLICATION NUMBER: not yet assigned
/ PRIOR FILING DATE: 2002-02-19
/ PRIOR APPLICATION NUMBER: DK PA 2001 00333
/ PRIOR FILING DATE: 2001-03-01
/ PRIOR APPLICATION NUMBER: US 09/648,569
/ PRIOR FILING DATE: 2000-08-25
/ NUMBER OF SEQ ID NOS: 57
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 2
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ FEATURE:
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; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; PRIOR FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-449-456-1

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Qy 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLAALAAADFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFFINRLTGYLRN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTROP, Jørn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalesg+rd
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORN, Claus
; APPLICANT: Maxysen AS
; APPLICANT: Maxysen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/609,296
; PRIOR FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: hIFNB mature sequence
; US-10-609-296-2

Query Match          95.6%; Score 829; DB 15; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Qy 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLAALAAADFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFFINRLTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-448-667-1

Query Match          95.6%; Score 829; DB 16; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Qy 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLAALAAADFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFFINRLTGYLRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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; Patent No. US20020155547A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses
; FILE REFERENCE: A084PC1SEQ
; CURRENT APPLICATION NUMBER: US/09/832,659
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/120,237
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/104,491
; PRIOR FILING DATE: 1998-10-16
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 4
; LENGTH: 183
; TYPE: PRT
; ORGANISM: murine
US-09-832-659-4

Query Match      95.6%; Score 829; DB 9; Length 183;
Best Local Similarity 95.8%; Pred. No. 7.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY      1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQFQKEDAAALTY 60
DB      18 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQFQKEDAAALTY 77
QY      61 EMLQNIFAIFRODSSSTGNETTIVENLLANYHQINHLKTVLAAKLAADFTRGALMSSL 120
DB      78 EMLQNIFAIFRODSSSTGNETTIVENLLANYHQINHLKTVLEEKLEKEDFTRGKLMSSL 137
QY      121 HLKRYVGRILHYLKAKKEYSHCAWTIVRVEILLRNFFINRLTGYLRLN 166
DB      138 HLKRYVGRILHYLKAKKEYSHCAWTIVRVEILLRNFFINRLTGYLRLN 183

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Search completed: May 19, 2004, 15:20:01
Job time : 34.2 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 Seconds
(without alignments)
669.524 Million cell updates/sec

Title: US-09-832-659A-53
Perfect score: 865
Sequence: 1 MSYNLLGLFQRSSNFQCKL.....RVEILRNFYRINRLTGYLRN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	831	96.1	166	4	US-09-397-992A-7
2	831	96.1	166	4	US-09-569-722A-1
3	831	96.1	166	4	US-09-648-569A-2
4	831	96.1	166	4	US-09-971-843-7
5	831	96.1	166	4	US-09-403-532E-1
6	831	96.1	166	4	US-09-462-941-5
7	831	96.1	166	6	5514567-4
8	831	96.1	187	3	US-09-206-903A-9
9	831	96.1	187	3	US-08-406-030A-30
10	831	96.1	187	3	US-09-202-122-9
11	831	96.1	187	3	US-09-206-935-7
12	831	96.1	187	4	US-09-206-936-7
13	831	96.1	187	4	US-09-487-732-4
14	831	96.1	187	4	US-09-908-534-4
15	831	96.1	187	4	US-09-919-622A-9
16	831	96.1	187	6	5514567-1
17	831	96.1	415	4	US-09-215-212-14
18	829	95.8	166	2	US-08-477-310A-1
19	826	95.5	166	1	US-08-213-448-1
20	826	95.5	166	3	US-08-913-768-1
21	826	95.5	166	4	US-09-563-722A-4
22	826	95.5	166	4	US-09-569-722A-18
23	826	95.5	166	5	PCT-US95-03206-1
24	826	95.5	187	3	US-08-912-768-3
25	824	95.3	166	4	US-09-487-732-21
26	824	95.3	166	4	US-09-908-534-21
27	823	95.1	187	1	US-08-026-758-22

28	822	95.0	166	4	US-09-331-260-2	Sequence 2, Appli
29	821	94.9	166	4	US-09-569-722A-5	Sequence 5, Appli
30	814	94.1	187	6	5326889-1	Patent No. 5326889
31	812	93.9	166	4	US-09-569-722A-13	Sequence 13, Appli
32	812	93.9	166	4	US-09-569-722A-19	Sequence 19, Appli
33	807	93.3	166	4	US-09-569-722A-8	Sequence 8, Appli
34	807	93.3	166	4	US-09-569-722A-16	Sequence 16, Appli
35	805	93.1	166	4	US-09-569-722A-6	Sequence 6, Appli
36	804	92.9	166	4	US-09-569-722A-24	Sequence 24, Appli
37	802	92.7	166	4	US-09-569-722A-14	Sequence 14, Appli
38	801	92.6	166	4	US-09-569-722A-7	Sequence 7, Appli
39	801	92.6	166	4	US-09-569-722A-12	Sequence 12, Appli
40	801	92.6	166	4	US-09-569-722A-17	Sequence 17, Appli
41	800	92.5	166	4	US-09-569-722A-22	Sequence 22, Appli
42	799	92.4	166	4	US-09-569-722A-15	Sequence 15, Appli
43	796	92.0	166	4	US-09-569-722A-20	Sequence 20, Appli
44	795	91.9	166	4	US-09-569-722A-11	Sequence 11, Appli
45	794	91.8	166	4	US-09-569-722A-23	Sequence 23, Appli

ALIGNMENTS

RESULT 1

US-09-397-992A-7
; Sequence 7, Application US/09397992A

; Patent No. 6329175

; GENERAL INFORMATION:

; APPLICANT: Conklin, Darrell

; APPLICANT: Grant, Francis J.

; APPLICANT: Rixon, Mark W.

; APPLICANT: Kindesogel, Wayne

; TITLE OF INVENTION: Interferon-epsilon

; FILE REFERENCE: 98-46

; CURRENT APPLICATION NUMBER: US/09/397,992A

; CURRENT FILING DATE: 1999-09-16

; PRIOR APPLICATION NUMBER: 60/101,012

; PRIOR FILING DATE: 1998-09-18

; PRIOR APPLICATION NUMBER: 60/118,578

; PRIOR FILING DATE: 1999-02-05

; PRIOR APPLICATION NUMBER: 60/142,766

; PRIOR FILING DATE: 1999-07-08

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 7

; LENGTH: 166

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-397-992A-7

Query Match 96.1%; Score 831; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY	1	MSYNLLGLFQRSSNFQCKLWQLNGRLCYCLKRNDFDPEIKQLQFQKEDALTYI 60	
Db	1	MSYNLLGLFQRSSNFQCKLWQLNGRLCYCLKRNDFDPEIKQLQFQKEDALTYI 60	
QY	61	EMLQNIFFAFRODSSTGWNTEIVENLLANVAHAHLAAVLEEKLEKEDPTFGALMSSL 120	
Db	61	EMLQNIFFAFRODSSTGWNTEIVENLLANVAHAHLAAVLEEKLEKEDPTFGALMSSL 120	
QY	121	HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYRINRLTGYLRN 166	
Db	121	HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYRINRLTGYLRN 166	

RESULT 2

US-09-569-722A-1

; Sequence 1, Application US/09569722A

; Patent No. 6514729

; GENERAL INFORMATION:

; APPLICANT: Bentrrien, Joerg M

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; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY
; FILE REFERENCE: A-68059-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/569,722A
; PRIOR FILING DATE: 2000-05-11
; PRIOR APPLICATION NUMBER: US 60/133,785
; PRIOR FILING DATE: 1999-05-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-569-722A-1

Query Match          96.1%; Score 831; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60

QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRIHLVYLKAKESHCATIVRVEILNFYRINRLTGVLN 166
DB 121 HLKRYGRIHLVYLKAKESHCATIVRVEILNFYRINRLTGVLN 166

RESULT 3
US-09-648-569A-2
; Sequence 2, Application US/09648569A
; Patent No. 6531122
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 020us810
; CURRENT APPLICATION NUMBER: US/09/648,569A
; CURRENT FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-648-569A-2

Query Match          96.1%; Score 831; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60

QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRIHLVYLKAKESHCATIVRVEILNFYRINRLTGVLN 166
DB 121 HLKRYGRIHLVYLKAKESHCATIVRVEILNFYRINRLTGVLN 166

RESULT 4
US-09-971-843-7
; Sequence 7, Application US/09971843
; Patent No. 6544505
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
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; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvoegel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match          96.1%; Score 831; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60

QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRIHLVYLKAKESHCATIVRVEILNFYRINRLTGVLN 166
DB 121 HLKRYGRIHLVYLKAKESHCATIVRVEILNFYRINRLTGVLN 166

RESULT 5
US-09-403-532E-1
; Sequence 1, Application US/09403532E
; Patent No. 6572853
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewandter
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Maschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/09/403,532E
; CURRENT FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-403-532E-1

Query Match          96.1%; Score 831; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
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Query Match      96.1%; Score 831; DB 6; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY      1 MSYNLLGFLQASSNFQCKLLWNLNGRLVYCLKDRMNFPIPEIKLOQFOKEDAAALTY 60
DB      1 MSYNLLGFLQASSNFQCKLLWNLNGRLVYCLKDRMNFPIPEIKLOQFOKEDAAALTY 60

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RESULT 9
US-08-406-030A-30
; Sequence 30, Application US/08406030A
; Patent No. 6270989
; GENERAL INFORMATION:
; APPLICANT: Treco, Douglas A.
; APPLICANT: Heartlein, Michael W.
; APPLICANT: Heuge, Brian M.
; APPLICANT: Selgen, Richard F
; TITLE OF INVENTION: Protein Production and Delivery
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESSES:
; ADDRESSES: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:

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APPLICATION NUMBER: US/08/406,030A
FILING DATE: 17-MAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/243,391
FILING DATE: 13-MAY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/985,586
FILING DATE: 03-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/911,533
FILING DATE: 10-JUL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/787,840
FILING DATE: 05-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/789,188
FILING DATE: 05-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/11704
FILING DATE: 02-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/09627
FILING DATE: 05-NOV-1992
ATTORNEY/AGENT INFORMATION:
NAME: Granahan, Patricia
REGISTRATION NUMBER: 32,227
REFERENCE/DOCKET NUMBER: TKT95-01
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 187 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-406-030A-30

Query Match 96.1%; Score 831; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 6.2e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY 1 MSYNLLGFLQSSNFCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
DB 22 MSYNLLGFLQSSNFCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
DB 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 187

RESULT 10
US-09-202-122-9
Sequence 9, Application US/09202122
Patent No. 6259869
GENERAL INFORMATION:
APPLICANT: Chen, Jian
APPLICANT: Godowski, Paul
APPLICANT: Wood, William I.
APPLICANT: Zhang, Dong-Xiao
TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
FILE REFERENCE: P1224R2 (filed)
CURRENT APPLICATION NUMBER: US/09/202,122
CURRENT FILING DATE: 1999-03-04
PRIOR APPLICATION NUMBER: PCT/US98/25672
PRIOR FILING DATE: 1998-12-03
NUMBER OF SEQ ID NOS: 12
SEQ ID NO 9

LENGTH: 187
TYPE: PRT
ORGANISM: Homo sapiens
US-09-202-122-9
Query Match 96.1%; Score 831; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 6.2e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY 1 MSYNLLGFLQSSNFCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
DB 22 MSYNLLGFLQSSNFCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
DB 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 187

RESULT 11
US-09-206-935-7
Sequence 7, Application US/09206935
Patent No. 6259877
GENERAL INFORMATION:
APPLICANT: Chen, Jian
APPLICANT: Godowski, Paul
APPLICANT: Wood, William I.
APPLICANT: Zhang, Dong-Xiao
TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
FILE REFERENCE: 11669-50US05
CURRENT APPLICATION NUMBER: US/09/206,935
CURRENT FILING DATE: 1998-12-07
EARLIER APPLICATION NUMBER: 60/084,045
EARLIER FILING DATE: 1998-05-04
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 7
LENGTH: 187
TYPE: PRT
ORGANISM: Homo sapiens
US-09-206-935-7

Query Match 96.1%; Score 831; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 6.2e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY 1 MSYNLLGFLQSSNFCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
DB 22 MSYNLLGFLQSSNFCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
DB 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 187

RESULT 12
US-09-206-936-7
Sequence 7, Application US/09206936A
Patent No. 6300475
GENERAL INFORMATION:
APPLICANT: Chen, Jian
APPLICANT: Wood, William I.
APPLICANT: Zhang, Dong-Xiao
TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
FILE REFERENCE: P1224R1
CURRENT APPLICATION NUMBER: US/09/206,936A
CURRENT FILING DATE: 1998-12-07


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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-936-7

Query Match          96.1%; Score 831; DB 4; Length 187;
Best Local Similarity 96.4%; Pred. No. 6.2e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 81

QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVAHQIAHLAAVLEBKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFQDSSSTGNETIVENLLANVAHQIAHLAAVLEBKLEKEDFTRGALMSSL 141

QY 121 HLKRYGRIHLKAKYSHCAWTIVRVEILRNFRINRLTGYLRN 166
DB 142 HLKRYGRIHLKAKYSHCAWTIVRVEILRNFRINRLTGYLRN 187

RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P1
; CURRENT APPLICATION NUMBER: US/09/487,792
; CURRENT FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-487-792-4

Query Match          96.1%; Score 831; DB 4; Length 187;
Best Local Similarity 96.4%; Pred. No. 6.2e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 81

QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVAHQIAHLAAVLEBKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFQDSSSTGNETIVENLLANVAHQIAHLAAVLEBKLEKEDFTRGALMSSL 141

QY 121 HLKRYGRIHLKAKYSHCAWTIVRVEILRNFRINRLTGYLRN 166
DB 142 HLKRYGRIHLKAKYSHCAWTIVRVEILRNFRINRLTGYLRN 187

RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lafleur, et al.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2
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; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/292,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-908-594-4

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Best Local Similarity 96.4%; Pred. No. 6.2e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 81

QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVAHQIAHLAAVLEBKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFQDSSSTGNETIVENLLANVAHQIAHLAAVLEBKLEKEDFTRGALMSSL 141

QY 121 HLKRYGRIHLKAKYSHCAWTIVRVEILRNFRINRLTGYLRN 166
DB 142 HLKRYGRIHLKAKYSHCAWTIVRVEILRNFRINRLTGYLRN 187

RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-622A-9

Query Match          96.1%; Score 831; DB 4; Length 187;
Best Local Similarity 96.4%; Pred. No. 6.2e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 81
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Db	82	EMLQNI	FAIFRODSSSTGWN	ETIVENLLANVYHQINHLK	TVLEKLEKEDFTRGALMSSL	141
Qy	121	HLKRY	YGRILHYLKAKEYSH	CAWTIVRVEILNRYINRL	TGYLRN	166
Db	142	HLKRY	YGRILHYLKAKEYSH	CAWTIVRVEILNRYINRL	TGYLRN	187

Search completed: May 19, 2004, 14:26:12
Job time : 12.8 secs

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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 seconds
(without alignments)
1391.307 Million cell updates/sec

Title: US-09-832-659A-53
Perfect score: 865
Sequence: 1 MSYNLLGFLQSSNFQCKL.....RVEILRNFYRINRLTYGRN 166

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
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- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
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- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	844	97.6	166	10	US-09-832-658-24
2	831	96.1	166	10	US-09-971-843-7
3	831	96.1	166	12	US-09-732-436-16
4	831	96.1	166	14	US-10-246-932-1
5	831	96.1	166	14	US-10-186-962-1
6	831	96.1	166	14	US-10-400-377-5
7	831	96.1	166	14	US-10-400-708-5
8	831	96.1	166	14	US-10-084-706-2
9	831	96.1	166	14	US-10-298-148-5
10	831	96.1	166	14	US-10-325-720-2
11	831	96.1	166	14	US-10-351-189-2
12	831	96.1	166	14	US-10-449-456-1
13	831	96.1	166	15	US-10-603-296-2
14	831	96.1	166	16	US-10-448-667-1
15	831	96.1	183	9	US-09-832-659-4

16	831	96.1	183	10	US-09-832-658-2	Sequence 2, Appli
17	831	96.1	186	12	US-10-449-831A-146	Sequence 146, App
18	831	96.1	187	9	US-09-788-552-1	Sequence 1, Appli
19	831	96.1	187	9	US-09-919-622A-9	Sequence 9, Appli
20	831	96.1	187	12	US-10-411-037-6	Sequence 6, Appli
21	831	96.1	187	12	US-09-881-050-17	Sequence 17, Appli
22	831	96.1	187	12	US-10-411-026-6	Sequence 6, Appli
23	831	96.1	187	13	US-10-004-201-2	Sequence 2, Appli
24	831	96.1	187	14	US-10-096-373-2	Sequence 2, Appli
25	831	96.1	187	14	US-10-418-038-9	Sequence 9, Appli
26	831	96.1	187	16	US-10-410-962-6	Sequence 6, Appli
27	831	96.1	187	16	US-10-411-049-6	Sequence 6, Appli
28	831	96.1	199	12	US-09-766-920B-11	Sequence 11, Appli
29	831	96.1	234	12	US-10-449-831A-192	Sequence 192, App
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31	829	95.8	166	12	US-10-035-420-1	Sequence 1, Appli
32	829	95.8	166	12	US-10-010-448-1	Sequence 7, Appli
33	828	95.7	187	9	US-09-927-850-7	Sequence 2, Appli
34	824	95.3	166	9	US-09-788-552-2	Sequence 28, Appli
35	824	95.3	166	10	US-09-832-658-28	Sequence 42, Appli
36	822	95.0	418	9	US-09-832-659-42	Sequence 44, Appli
37	822	95.0	423	9	US-09-832-659-44	Sequence 2, Appli
38	821	94.9	166	14	US-10-246-932-2	Sequence 2, Appli
39	820	94.8	166	15	US-10-168-956A-1	Sequence 1, Appli
40	819	94.7	166	12	US-10-035-420-2	Sequence 2, Appli
41	819	94.7	166	12	US-10-010-448-2	Sequence 23, Appli
42	791	91.4	166	14	US-10-449-456-23	Sequence 23, Appli
43	791	91.4	166	16	US-10-448-667-23	Sequence 4, Appli
44	791	91.4	187	9	US-09-725-433-4	Sequence 12, Appli
45	791	91.4	187	14	US-10-284-740-12	

ALIGNMENTS

RESULT 1

US-09-832-658-24
; Sequence 24. Application US/09832658
; Publication NO. US20030021765A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; APPLICANT: Pepinsky, Blake
; APPLICANT: Runkel, Laura
; APPLICANT: Brickelmaier, Margot
; APPLICANT: Whitty, Adrian
; APPLICANT: Hochman, Paula
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a
; FILE REFERENCE: and Uses
; FILE REFERENCE: A065PCT
; CURRENT APPLICATION NUMBER: US/09/832,658
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/104,572
; PRIOR FILING DATE: 1998-10-16
; PRIOR APPLICATION NUMBER: 60/120,161
; PRIOR FILING DATE: 1999-02-16
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 166
; TYPE: PRT
; ORGANISM: human
US-09-832-658-24

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Best Local Similarity 97.6%; Pred. No. 2.3e-81;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy	1	MSYNLLGFLQSSNFQCKLLWLNGLRLEYCLKDRNFPIPEIKOLQOQKEDALTYI	60
Db	1	MSYNLLGFLQSSNFQCKLLWLNGLRLEYCLKDRNFPIPEIKOLQOQKEDALTYI	60
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Db 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
Qy 121 HLKRYGRILHYLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRILHYLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindevogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

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Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60
Qy 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVAHQIAHLAAVLBEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
Qy 121 HLKRYGRILHYLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRILHYLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Pravaga, Subhirdas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT
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; ORGANISM: Homo sapiens
US-09-732-436-16

Query Match 96.1%; Score 831; DB 12; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60
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Db 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
Qy 121 HLKRYGRILHYLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRILHYLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorraine
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PFI8399.002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match 96.1%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60
Qy 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVAHQIAHLAAVLBEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
Qy 121 HLKRYGRILHYLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRILHYLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DEUSTRUP, Joern
; APPLICANT: Maxygen ApS
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30
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; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match          96.1%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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DB 61 EMLQNIFAIFQDSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
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DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTYLGN 166

RESULT 6
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; PRIOR FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          96.1%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
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DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTYLGN 166

RESULT 7
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US20030166865A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; PRIOR FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-708-5

Query Match          96.1%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTYI 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTYI 60
QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTYLGN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTYLGN 166

RESULT 8
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thaisg+rd
; APPLICANT: ANDERSEN, Kim Vilbourn
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
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; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-708-5

Query Match          96.1%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTYI 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTYI 60
QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTYLGN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTYLGN 166

RESULT 8
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thaisg+rd
; APPLICANT: ANDERSEN, Kim Vilbourn
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
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; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: h1PNB mature sequence
US-10-084-706-2

Query Match          96.1%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITTY 60
Db 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITTY 60
Qy 61 EMLQNIFAIFRDSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRDSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 166
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 166

RESULT 9
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US20030171284A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; CURRENT FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match          96.1%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITTY 60
Db 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITTY 60
Qy 61 EMLQNIFAIFRDSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRDSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 166
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 166

RESULT 10
US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2002-12-19
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; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match          96.1%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITTY 60
Db 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITTY 60
Qy 61 EMLQNIFAIFRDSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRDSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 166
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 166

RESULT 11
US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match          96.1%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITTY 60
Db 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITTY 60
Qy 61 EMLQNIFAIFRDSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRDSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 166
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 166

RESULT 12
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US20030186886A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
```

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; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-449-456-1

Query Match          96.1%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQOQFQKEDAAITII 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQOQFQKEDAAITII 60

QY 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVAHQIAHLAAVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVAHQIAHLAAVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTUP, Jørn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalsg+rd
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORNES, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/609,296
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: h1FNB mature sequence
US-10-609-296-2

Query Match          96.1%; Score 831; DB 15; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQOQFQKEDAAITII 60
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QY 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVAHQIAHLAAVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVAHQIAHLAAVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-448-667-1

Query Match          96.1%; Score 831; DB 16; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQOQFQKEDAAITII 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQOQFQKEDAAITII 60

QY 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVAHQIAHLAAVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVAHQIAHLAAVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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; Patent No. US2002015547A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses
; FILE REFERENCE: A064PCTSEQ
; CURRENT APPLICATION NUMBER: US/09/832,659
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/120,237
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/104,491
; PRIOR FILING DATE: 1998-10-16
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 183
; TYPE: PRT
; ORGANISM: murine
US-09-832-659-4

Query Match 96.1%; Score 831; DB 9; Length 183;
Best Local Similarity 96.4%; Pred. No. 6,3e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
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DB 18 MSYNLLGFQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQCFQKEDALTIY 77
QY 61 EMLQNFALFRQDSSSTGNETIVENLLANYVAHQIAHLAAVLEKLEKEDFTRGALMSSL 120
DB 78 EMLQNFALFRQDSSSTGNETIVENLLANYVHQINHLKTVLEKLEKEDFTRGKLMSSL 137
QY 121 HLKRYGRIHLHLKAKYSHCAWTIVRVEILRNFYRINRLTGYLRN 166
DB 138 HLKRYGRIHLHLKAKYSHCAWTIVRVEILRNFYRINRLTGYLRN 183

Search completed: May 19, 2004, 15:20:00
Job time : 33.2 secs

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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 Seconds
(without alignments)
669.524 Million cell updates/sec

Title: US-09-832-659A-52
Perfect score: 867
Sequence: 1 MSYNLGLFQSSNFQCKL.....RVEILNRYINRLTGYLRN 166

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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6: /cgn2_6/ptodata/2/iaa/backfiles1.psp:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	832	96.0	166	4	US-09-397-992A-7
2	832	96.0	166	4	US-09-569-722A-1
3	832	96.0	166	4	US-09-648-569A-2
4	832	96.0	166	4	US-09-971-843-7
5	832	96.0	166	4	US-09-403-532E-1
6	832	96.0	166	4	US-09-462-941-5
7	832	96.0	166	6	5514567-4
8	832	96.0	187	3	US-09-206-903A-9
9	832	96.0	187	3	US-08-406-030A-30
10	832	96.0	187	3	US-09-202-122-9
11	832	96.0	187	3	US-09-206-935-7
12	832	96.0	187	4	US-09-206-936-7
13	832	96.0	187	4	US-09-487-792-4
14	832	96.0	187	4	US-09-908-594-4
15	832	96.0	187	4	US-09-919-622A-9
16	832	96.0	187	6	5514567-1
17	832	96.0	415	4	US-09-215-212-14
18	830	95.7	166	2	US-08-477-340A-1
19	827	95.4	166	1	US-08-213-448-1
20	827	95.4	166	3	US-08-912-768-1
21	827	95.4	166	4	US-09-569-722A-4
22	827	95.4	166	4	US-09-569-722A-18
23	827	95.4	166	5	PCT-US95-03206-1
24	827	95.4	187	3	US-08-912-768-3
25	825	95.2	166	4	US-09-487-792-21
26	825	95.2	166	4	US-09-908-594-21
27	824	95.0	187	1	US-08-026-758-22

28	823	94.9	166	4	US-09-331-260-2	Sequence 2, Appli
29	822	94.8	166	4	US-09-569-722A-5	Sequence 5, Appli
30	815	94.0	187	6	5326859-1	Patent No. 5326859
31	813	93.8	166	4	US-09-569-722A-13	Sequence 13, Appli
32	813	93.8	166	4	US-09-869-722A-19	Sequence 19, Appli
33	808	93.2	166	4	US-09-569-722A-9	Sequence 8, Appli
34	808	93.2	166	4	US-09-569-722A-16	Sequence 16, Appli
35	806	93.0	166	4	US-09-569-722A-6	Sequence 6, Appli
36	805	92.8	166	4	US-09-569-722A-24	Sequence 24, Appli
37	803	92.6	166	4	US-09-569-722A-14	Sequence 14, Appli
38	802	92.5	166	4	US-09-569-722A-7	Sequence 7, Appli
39	802	92.5	166	4	US-09-569-722A-12	Sequence 12, Appli
40	802	92.5	166	4	US-09-569-722A-17	Sequence 17, Appli
41	801	92.4	186	4	US-09-569-722A-22	Sequence 22, Appli
42	800	92.3	166	4	US-09-569-722A-15	Sequence 15, Appli
43	797	91.9	166	4	US-09-569-722A-20	Sequence 20, Appli
44	796	91.8	166	4	US-09-569-722A-11	Sequence 11, Appli
45	795	91.7	166	4	US-09-569-722A-23	Sequence 23, Appli

ALIGNMENTS

RESULT 1
US-09-397-992A-7
; Sequence 7, Application US/09397992A
; Patent No. 6323175
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46
; CURRENT APPLICATION NUMBER: US/09/397,992A
; CURRENT FILING DATE: 1999-09-16
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-397-992A-7

Query Match 96.0%; Score 832; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 3e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;
Qy 1 MSYNLGLFQSSNFQCKLWQLNGLEVCYCLKDRMNFDPRIKOLQOFKEDALTYI 60
Db 1 MSYNLGLFQSSNFQCKLWQLNGLEVCYCLKDRMNFDPRIKOLQOFKEDALTYI 60
Qy 61 EMQNIFAIHQSSSTGWNASIAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMQNIFAIHQSSSTGWNASIAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Qy 121 HKRYGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HKRYGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 2
US-09-569-722A-1
; Sequence 1, Application US/09569722A
; Patent No. 6514729
; GENERAL INFORMATION:
; APPLICANT: Bentzien, Joerg M

; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY
; FILE REFERENCE: A-68059-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/569,722A
; CURRENT FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: US 60/133,785
; PRIOR FILING DATE: 1999-05-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-569-722A-1

Query Match 96.0%; Score 832; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 3e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGNASIVAAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNWETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRN 166

RESULT 3
US-09-648-569A-2

; Sequence 2, Application US/09648569A
; Patent No. 6531122

; GENERAL INFORMATION:

; APPLICANT: Pedersen, A.H., et al.

; APPLICANT: Maxygen APS

; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates

; FILE REFERENCE: 0202us810

; CURRENT APPLICATION NUMBER: US/09/648,569A

; CURRENT FILING DATE: 2000-08-25

; NUMBER OF SEQ ID NOS: 45

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 2

; LENGTH: 166

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-648-569A-2

Query Match 96.0%; Score 832; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 3e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGNASIVAAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNWETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRN 166

RESULT 4

US-09-971-843-7

; Sequence 7, Application US/09971843

; Patent No. 6544505

; GENERAL INFORMATION:

; APPLICANT: Conklin, Darrell C.

; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46DI
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match 96.0%; Score 832; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 3e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGNASIVAAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNWETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRN 166

RESULT 5

US-09-403-532E-1

; Sequence 1, Application US/09403532E

; Patent No. 6572853

; GENERAL INFORMATION:

; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand

; APPLICANT: Schneider-Fresenius, Christian

; APPLICANT: Otto, Bernd

; APPLICANT: Waschutza, Gero

; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY

; FILE REFERENCE: 127-65050

; CURRENT APPLICATION NUMBER: US/09/403,532E

; CURRENT FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: PCT/EP/98/02238

; PRIOR FILING DATE: 1998-04-16

; PRIOR APPLICATION NUMBER: DE 19717864.2

; PRIOR FILING DATE: 1997-04-23

; NUMBER OF SEQ ID NOS: 26

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 1

; LENGTH: 166

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-403-532E-1

Query Match 96.0%; Score 832; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 3e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 6

US-09-462-941-5

; Sequence 5, Application US/09462941

; Patent No. 6608183

; GENERAL INFORMATION:

; APPLICANT: Cox III, George N

; APPLICANT: Bolder Biotechnology, Inc.

; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins

; FILE REFERENCE: 4152-1-PUS

; CURRENT APPLICATION NUMBER: US/09/462,941

; PRIOR FILING DATE: 2000-01-14

; PRIOR APPLICATION NUMBER: 60/052,516

; PRIOR FILING DATE: 1997-07-14

; NUMBER OF SEQ ID NOS: 41

; SOFTWARE: Patent In Ver. 2.0

; SEQ ID NO 5

; LENGTH: 166

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-462-941-5

Query Match 96.0%; Score 832; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 3e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 7

5514567-4

; Patent No. 5514567

; APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI,

; TADATSUGU

; TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID

; NUMBER OF SEQUENCES: 5

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/400,179

; FILING DATE: 06-MAR-1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 389,922

; FILING DATE: 18-JUN-1982

; APPLICATION NUMBER: 201,359

; FILING DATE: 27-OCT-1980

; SEQ ID NO: 4;

; LENGTH: 166

5514567-4

Query Match 96.0%; Score 832; DB 6; Length 166;
Best Local Similarity 95.8%; Pred. No. 3e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 8

US-09-206-903A-9

; Sequence 9, Application US/09206903A

; Patent No. 6260780

; GENERAL INFORMATION:

; APPLICANT: Chen, Jian

; APPLICANT: Godowski, Paul J.

; APPLICANT: Wood, William I.

; APPLICANT: Zhang, Dong-Xiao

; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS

; FILE REFERENCE: P1224-2R1

; CURRENT APPLICATION NUMBER: US/09/206,903A

; CURRENT FILING DATE: 1998-12-07

; PRIOR APPLICATION NUMBER: US 60/106,463

; PRIOR FILING DATE: 1998-10-30

; NUMBER OF SEQ ID NOS: 12

; SEQ ID NO 9

; LENGTH: 187

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-206-903A-9

Query Match 96.0%; Score 832; DB 3; Length 187;
Best Local Similarity 95.8%; Pred. No. 3.5e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
DB 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 187

RESULT 9

US-08-406-030A-30

; Sequence 30, Application US/08406030A

; Patent No. 6270989

; GENERAL INFORMATION:

; APPLICANT: Treco, Douglas A.

; APPLICANT: Heartlein, Michael W.

; APPLICANT: Hauge, Brian M.

; APPLICANT: Selden, Richard F

; TITLE OF INVENTION: Protein Production and Delivery

; NUMBER OF SEQUENCES: 30

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.

; STREET: Two Militia Drive

; CITY: Lexington

; STATE: Massachusetts

; COUNTRY: USA

; ZIP: 02173

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: US/08/406.030A
; FILING DATE: 17-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/243,391
; FILING DATE: 13-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/985,586
; FILING DATE: 03-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/911,533
; FILING DATE: 10-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,840
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,188
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/11704
; FILING DATE: 02-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/09627
; FILING DATE: 05-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: TKT95-01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 187 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-406-030A-30

Query Match          96.0%; Score 832; DB 3; Length 187;
Best Local Similarity 95.8%; Pred. No. 3.5e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQINHLKTVEEKLKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVEEKLKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
DB 142 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNFRINRLTGYLRN 187

RESULT 10
US-09-202-122-9
; Sequence 9, Application US/09202122
; Patent No. 6299869
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2 (filed)
; CURRENT APPLICATION NUMBER: US/09/202,122
; CURRENT FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/255672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
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; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-202-122-9

Query Match          96.0%; Score 832; DB 3; Length 187;
Best Local Similarity 95.8%; Pred. No. 3.5e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQINHLKTVEEKLKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVEEKLKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
DB 142 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNFRINRLTGYLRN 187

RESULT 11
US-09-206-935-7
; Sequence 7, Application US/09206935
; Patent No. 6299877
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Zhang, Dong-Xiao
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: 11669.SOUS05
; CURRENT APPLICATION NUMBER: US/09/206,935
; CURRENT FILING DATE: 1998-12-07
; EARLIER APPLICATION NUMBER: 60/084,045
; EARLIER FILING DATE: 1998-05-04
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-935-7

Query Match          96.0%; Score 832; DB 3; Length 187;
Best Local Similarity 95.8%; Pred. No. 3.5e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQINHLKTVEEKLKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVEEKLKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
DB 142 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNFRINRLTGYLRN 187

RESULT 12
US-09-206-936-7
; Sequence 7, Application US/09206936A
; Patent No. 6300475
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: No. 6300475el Inteferon
; FILE REFERENCE: P1224R1
; CURRENT APPLICATION NUMBER: US/09/206,936A
; CURRENT FILING DATE: 1998-12-07
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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-936-7

Query Match          96.0%; Score 832; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 3.5e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAALTY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAALTY 81

Qy 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHOINHLKTVLEEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHOINHLKTVLEEKEDFTRGALMSSL 141

Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTYGLRN 166
Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTYGLRN 187

RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P1
; CURRENT APPLICATION NUMBER: US/09/487,792
; CURRENT FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-487-792-4

Query Match          96.0%; Score 832; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 3.5e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAALTY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAALTY 81

Qy 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHOINHLKTVLEEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHOINHLKTVLEEKEDFTRGALMSSL 141

Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTYGLRN 166
Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTYGLRN 187

RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lafleur, et al.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF452P2
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; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/292,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-908-594-4

Query Match          96.0%; Score 832; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 3.5e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAALTY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAALTY 81

Qy 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHOINHLKTVLEEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHOINHLKTVLEEKEDFTRGALMSSL 141

Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTYGLRN 166
Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTYGLRN 187

RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-622A-9

Query Match          96.0%; Score 832; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 3.5e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAALTY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAALTY 81
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QY	121	HLKRYG	RIL	HYL	K	A	K	E	Y	S	H	C	A	W	T	I	V	R	V	E	I	L	R	N	F	R	I	N	L	T	G	Y	L	R	N	166
Db	142	HLKRYG	RIL	HYL	K	A	K	E	Y	S	H	C	A	W	T	I	V	R	V	E	I	L	R	N	F	R	I	N	L	T	G	Y	L	R	N	187

Search completed: May 19, 2004, 14:26:12
Job time : 13.8 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds
(without alignments)
1391.307 Million cell updates/sec

Title: US-09-832-659A-52

Perfect score: 867
Sequence: 1 MSYNLLGLQSRNSNFQCKL.....RVEILNFYRINLTGYLRN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1145588 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubaa/US06_NEW_PUB.pep.*
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- 11: /cgn2_6/ptodata/2/pubaa/US09C_PUBCOMB.pep.*
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- 16: /cgn2_6/ptodata/2/pubaa/US10_NEW_PUB.pep.*
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- 18: /cgn2_6/ptodata/2/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	845	97.5	166	10	US-09-832-658-24
2	833	96.1	166	9	US-09-788-552-2
3	832	96.0	166	10	US-09-971-843-7
4	832	96.0	166	12	US-09-732-436-16
5	832	96.0	166	14	US-10-246-932-1
6	832	96.0	166	14	US-10-186-962-1
7	832	96.0	166	14	US-10-400-377-5
8	832	96.0	166	14	US-10-400-708-5
9	832	96.0	166	14	US-10-084-706-2
10	832	96.0	166	14	US-10-298-148-5
11	832	96.0	166	14	US-10-325-720-2
12	832	96.0	166	14	US-10-351-189-2
13	832	96.0	166	14	US-10-449-456-1
14	832	96.0	166	15	US-10-609-296-2
15	832	96.0	166	16	US-10-448-667-1

16	832	96.0	183	9	US-09-832-659-4	Sequence 4, Appli
17	832	96.0	183	10	US-09-832-658-2	Sequence 2, Appli
18	832	96.0	186	12	US-10-449-831A-146	Sequence 146, App
19	832	96.0	187	9	US-09-788-552-1	Sequence 1, Appli
20	832	96.0	187	9	US-09-919-622A-9	Sequence 9, Appli
21	832	96.0	187	12	US-10-411-037-6	Sequence 17, Appli
22	832	96.0	187	12	US-09-881-050-17	Sequence 6, Appli
23	832	96.0	187	12	US-10-411-026-6	Sequence 2, Appli
24	832	96.0	187	13	US-10-004-201-2	Sequence 2, Appli
25	832	96.0	187	14	US-10-096-373-2	Sequence 9, Appli
26	832	96.0	187	14	US-10-418-038-9	Sequence 6, Appli
27	832	96.0	187	16	US-10-410-962-6	Sequence 11, Appli
28	832	96.0	187	16	US-09-766-920B-11	Sequence 192, App
29	832	96.0	234	12	US-10-449-831A-192	Sequence 2, Appli
30	832	96.0	399	9	US-09-832-659-2	Sequence 1, Appli
31	830	95.7	166	12	US-10-035-420-1	Sequence 7, Appli
32	830	95.7	166	12	US-10-010-448-1	Sequence 1, Appli
33	829	95.6	187	9	US-09-927-850-7	Sequence 27, Appli
34	824	95.0	166	10	US-09-832-658-27	Sequence 42, Appli
35	823	94.9	418	9	US-09-832-659-42	Sequence 44, Appli
36	823	94.9	423	9	US-09-832-659-44	Sequence 2, Appli
37	822	94.8	166	14	US-10-246-932-2	Sequence 1, Appli
38	822	94.8	166	15	US-10-168-956A-1	Sequence 2, Appli
39	821	94.7	166	12	US-10-038-420-2	Sequence 23, Appli
40	820	94.6	166	12	US-10-010-448-2	Sequence 4, Appli
41	820	94.6	166	14	US-10-449-456-23	Sequence 12, Appli
42	792	91.3	166	16	US-10-448-667-23	
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44	792	91.3	187	14	US-10-284-740-12	
45	792	91.3				

ALIGNMENTS

RESULT 1

US-09-832-658-24
; Sequence 24, Application US/09832658
; Publication No. US20030021765A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; APPLICANT: Pepinsky, Blake
; APPLICANT: Runkel, Laura
; APPLICANT: Brickelmaier, Margot
; APPLICANT: Whitty, Adrian
; APPLICANT: Hochman, Paula
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a
; FILE REFERENCE: A065PCT
; CURRENT APPLICATION NUMBER: US/09/832,658
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/104,572
; PRIOR FILING DATE: 1998-10-16
; PRIOR APPLICATION NUMBER: 60/120,161
; PRIOR FILING DATE: 1999-02-16
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 166
; TYPE: PRT
; ORGANISM: human
US-09-832-658-24

Query Match	97.5%	Score 845	DB 10	Length 166
Best Local Similarity	97.0%	Pred. No. 3e+82		
Matches 161	Conservative	2	Mismatches 3	Indels 0
Gaps	0			
Qy	1	MSYNLLGLQSRNSNFQCKLWQLGRLEYCLKDRNFDIPEIKLOQFOKEDALITY	60	
Db	1	MSYNLLGLQSRNSNFQCKLWQLGRLEYCLKDRNFDIPEIKLOQFOKEDALITY	60	
Qy	61	EMLQNFALFRODSSTGWNASIVAALLSNVYHQNLKTVLEEKLEKEDFTRGALMSL	120	

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Db 61 EMLQNIFAIFRDSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
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Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 2
US-09-788-552-2
; Sequence 2, Application US/09788552
; Patent No. US20020076399A1
; GENERAL INFORMATION:
; APPLICANT: Braun, Serge
; TITLE OF INVENTION: Treatment of Immune Diseases
; FILE REFERENCE: 032751-053
; CURRENT APPLICATION NUMBER: US/09/788,552
; CURRENT FILING DATE: 2001-08-23
; PRIOR APPLICATION NUMBER: EP 00 44 0053.7
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: US 60/246,089
; PRIOR FILING DATE: 2000-11-07
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-788-552-2

Query Match 96.1%; Score 833; DB 9; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.8e-81;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

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Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTYI 60
QY 61 EMLQNIFAIFRDSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRDSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 3
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Dorell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvoegel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
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US-09-971-843-7

Query Match 96.0%; Score 832; DB 10; Length 166;
Best Local Similarity 95.8%; Pred. No. 7.4e-81;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

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Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTYI 60
QY 61 EMLQNIFAIFRDSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRDSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 4
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Subhidas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-732-436-16

Query Match 96.0%; Score 832; DB 12; Length 166;
Best Local Similarity 95.8%; Pred. No. 7.4e-81;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTYI 60
Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTYI 60
QY 61 EMLQNIFAIFRDSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRDSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 5
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorraine
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PP18399.002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
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; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

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Best Local Similarity 95.8%; Pred. No. 7.4e-81;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

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DB 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTIY 60
QY 61 EMLQNIFAIFRDSSSTGWNASIVAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRDSSSTGWNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNRN 166

RESULT 6
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTRUP, Joern
; APPLICANT: Maxygen AGS
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match
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Best Local Similarity 95.8%; Pred. No. 7.4e-81;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

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QY 61 EMLQNIFAIFRDSSSTGWNASIVAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRDSSSTGWNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNRN 166

RESULT 7
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match
  96.0%; Score 832; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 7.4e-81;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTIY 60
DB 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTIY 60
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DB 61 EMLQNIFAIFRDSSSTGWNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNRN 166
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; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match
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Best Local Similarity 95.8%; Pred. No. 7.4e-81;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

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QY 61 EMLQNIFAIFRDSSSTGWNASIVAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRDSSSTGWNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNRN 166

RESULT 8
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US20030166865A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-708-5

Query Match
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Best Local Similarity 95.8%; Pred. No. 7.4e-81;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

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DB 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTIY 60
QY 61 EMLQNIFAIFRDSSSTGWNASIVAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRDSSSTGWNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNRN 166
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RESULT 9
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalsg+rd
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: hfpnb mature sequence
US-10-084-706-2

Query Match          96.0%; Score 832; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 7.4e-81;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY      1 MSYNLLGFLORSSNFQCKLWQLWNGRLVCLKDRNFDIPEIKLOQFOKEDAAITY 60
Db      1 MSYNLLGFLORSSNFQCKLWQLWNGRLVCLKDRNFDIPEIKLOQFOKEDAAITY 60
QY      61 EMLQNIFAIFRODSSSTGWNASIVAAALISNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db      61 EMLQNIFAIFRODSSSTGWNATIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY      121 HLKRYGGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db      121 HLKRYGGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 10
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US20030171284A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; CURRENT FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941

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; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates

; FILE REFERENCE: 0202us830

; CURRENT APPLICATION NUMBER: US/10/351.189

; CURRENT FILING DATE: 2003-01-24

; PRIOR APPLICATION NUMBER: US 09/648,569

; PRIOR FILING DATE: 2000-08-25

; NUMBER OF SEQ ID NOS: 45

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 2

; LENGTH: 166

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-351-189-2

Query Match

Best Local Similarity 96.0%; Score 832; DB 14; Length 166;

Mismatches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

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Db 1 MSYNLLGLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60

Qy 61 EMLQNIFAIFQDSSSTGNASIVAALLSNVYHQINHLKTVLEEKLEKEDFTFGALMSSL 120

Db 61 EMLQNIFAIFQDSSSTGNWETIVENLLANYVHQINHLKTVLEEKLEKEDFTFGALMSSL 120

Qy 121 HLKRYGRILHYLKAKEYSHCAWTVIRVEILRNFRINLTGYLRN 166

Db 121 HLKRYGRILHYLKAKEYSHCAWTVIRVEILRNFRINLTGYLRN 166

RESULT 13

US-10-449-456-1

; Sequence 1, Application US/10449456

; Publication No. US2003018686A1

; GENERAL INFORMATION:

; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan

; APPLICANT: Schneider-Fresenius, Christian

; APPLICANT: Otto, Bernd

; APPLICANT: Waschutza, Gero

; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY

; FILE REFERENCE: 127-65050

; CURRENT APPLICATION NUMBER: US/10/449,456

; CURRENT FILING DATE: 2003-05-30

; PRIOR APPLICATION NUMBER: US/09/403,532E

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: PCT/EP/98/02238

; PRIOR FILING DATE: 1998-04-16

; PRIOR APPLICATION NUMBER: DE 19717864.2

; NUMBER OF SEQ ID NOS: 26

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 1

; LENGTH: 166

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-449-456-1

Query Match

Best Local Similarity 95.0%; Score 832; DB 14; Length 166;

Mismatches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSYNLLGLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60

Db 1 MSYNLLGLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60

Qy 61 EMLQNIFAIFQDSSSTGNASIVAALLSNVYHQINHLKTVLEEKLEKEDFTFGALMSSL 120

Db 61 EMLQNIFAIFQDSSSTGNWETIVENLLANYVHQINHLKTVLEEKLEKEDFTFGALMSSL 120

Qy 121 HLKRYGRILHYLKAKEYSHCAWTVIRVEILRNFRINLTGYLRN 166

Db 121 HLKRYGRILHYLKAKEYSHCAWTVIRVEILRNFRINLTGYLRN 166

RESULT 14

US-10-609-296-2

; Sequence 2, Application US/10609296

; Publication No. US20040013644A1

; GENERAL INFORMATION:

; APPLICANT: RASMUSSEN, Poul Baad

; APPLICANT: DRUSTRUP, Jorn

; APPLICANT: RASMUSSEN, Græthe

; APPLICANT: PEDERSEN, Anders Hjelholt

; APPLICANT: SCHAMBYE, Hans Thalesg+rd

; APPLICANT: ANDERSEN, Kim Vilbour

; APPLICANT: BORN, Claus

; APPLICANT: Maxygen Aps

; APPLICANT: Maxygen Holdings Ltd.

; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES

; FILE REFERENCE: 0228us410

; CURRENT APPLICATION NUMBER: US/10/609,296

; CURRENT FILING DATE: 2003-06-27

; PRIOR APPLICATION NUMBER: US/10/084,706

; PRIOR FILING DATE: 2002-02-26

; PRIOR APPLICATION NUMBER: US 60/272,116

; PRIOR FILING DATE: 2001-02-27

; PRIOR APPLICATION NUMBER: US 60/343,436

; PRIOR FILING DATE: 2001-12-21

; PRIOR APPLICATION NUMBER: US 60/302,140

; PRIOR FILING DATE: 2001-06-29

; PRIOR APPLICATION NUMBER: US 60/316,170

; PRIOR FILING DATE: 2001-08-30

; PRIOR APPLICATION NUMBER: not yet assigned

; PRIOR FILING DATE: 2002-02-19

; PRIOR APPLICATION NUMBER: DK PA 2001 00333

; PRIOR FILING DATE: 2001-03-01

; PRIOR APPLICATION NUMBER: US 09/648,569

; PRIOR FILING DATE: 2000-08-25

; NUMBER OF SEQ ID NOS: 57

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 2

; LENGTH: 166

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: CHAIN

; LOCATION: (1)...(166)

; OTHER INFORMATION: hIENB mature sequence

US-10-609-296-2

Query Match

Best Local Similarity 96.0%; Score 832; DB 15; Length 166;

Mismatches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

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Db 1 MSYNLLGLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60

Qy 61 EMLQNIFAIFQDSSSTGNASIVAALLSNVYHQINHLKTVLEEKLEKEDFTFGALMSSL 120

Db 61 EMLQNIFAIFQDSSSTGNWETIVENLLANYVHQINHLKTVLEEKLEKEDFTFGALMSSL 120

Qy 121 HLKRYGRILHYLKAKEYSHCAWTVIRVEILRNFRINLTGYLRN 166

Db 121 HLKRYGRILHYLKAKEYSHCAWTVIRVEILRNFRINLTGYLRN 166

RESULT 15

US-10-448-667-1

; Sequence 1, Application US/10448667

; Publication No. US20040022763A1

; GENERAL INFORMATION:

; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan

; APPLICANT: Schneider-Fresenius, Christian

; APPLICANT: Otto, Bernd

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; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,867
; PRIOR FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-448-667-1

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Query Match      96.0%; Score 832; DB 16; Length 166;
Best Local Similarity 95.8%; Pred. No. 7.4e-81;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY      1 MSYNLLGFLQSSNFCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFOKEDAAITY 60
DB      1 MSYNLLGFLQSSNFCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFOKEDAAITY 60

QY      61 EMLQNIFAIFRODSSSTGWNASIVAAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB      61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY      121 HLKRYGRILHLKAKESHCAWTIVRVEILNFYINRLTGYLEN 166
DB      121 HLKRYGRILHLKAKESHCAWTIVRVEILNFYINRLTGYLEN 166

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Search completed: May 19, 2004, 15:20:00
Job time : 34.2 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds
(without alignments)
1391.307 Million cell updates/sec

Title: US-09-832-659A-51
Perfect score: 888
Sequence: 1 MSYNLLGFLQSSNFQCKL.....RVBILRFYRNLTGYLEN 166

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues
Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:
1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
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6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
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10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
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17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	852	98.2	166	10	US-09-832-658-24
2	839	96.7	166	10	US-09-832-658-24
3	839	96.7	166	12	US-09-832-658-24
4	839	96.7	166	14	US-10-411-037-6
5	839	96.7	166	14	US-10-411-037-6
6	839	96.7	166	14	US-10-411-037-6
7	839	96.7	166	14	US-10-411-037-6
8	839	96.7	166	14	US-10-411-037-6
9	839	96.7	166	14	US-10-411-037-6
10	839	96.7	166	14	US-10-411-037-6
11	839	96.7	166	14	US-10-411-037-6
12	839	96.7	166	14	US-10-411-037-6
13	839	96.7	166	14	US-10-411-037-6
14	839	96.7	166	14	US-10-411-037-6
15	839	96.7	166	14	US-10-411-037-6

16	839	96.7	183	10	US-09-832-658-24	Sequence 2, Appli
17	839	96.7	186	12	US-10-449-831A-146	Sequence 146, App
18	839	96.7	187	9	US-09-788-552-1	Sequence 1, Appli
19	839	96.7	187	9	US-09-919-622A-9	Sequence 9, Appli
20	839	96.7	187	12	US-10-411-037-6	Sequence 6, Appli
21	839	96.7	187	12	US-09-881-050-17	Sequence 17, Appli
22	839	96.7	187	12	US-10-411-026-6	Sequence 6, Appli
23	839	96.7	187	13	US-10-004-201-2	Sequence 2, Appli
24	839	96.7	187	14	US-10-096-373-2	Sequence 2, Appli
25	839	96.7	187	14	US-10-418-038-9	Sequence 9, Appli
26	839	96.7	187	16	US-10-410-962-6	Sequence 6, Appli
27	839	96.7	187	16	US-10-411-049-6	Sequence 6, Appli
28	839	96.7	199	12	US-09-766-920B-11	Sequence 11, Appli
29	839	96.7	234	12	US-10-449-831A-192	Sequence 192, App
30	839	96.7	399	9	US-09-832-659-2	Sequence 2, Appli
31	837	96.4	166	12	US-10-035-420-1	Sequence 1, Appli
32	837	96.4	166	12	US-10-010-448-1	Sequence 7, Appli
33	836	96.3	187	9	US-09-927-850-7	Sequence 7, Appli
34	832	95.9	166	9	US-09-788-552-2	Sequence 42, Appli
35	830	95.6	418	9	US-09-832-659-42	Sequence 44, Appli
36	830	95.6	423	9	US-09-832-659-44	Sequence 2, Appli
37	829	95.5	166	14	US-10-246-932-2	Sequence 1, Appli
38	828	95.4	166	15	US-10-168-956A-1	Sequence 2, Appli
39	827	95.3	166	12	US-10-035-420-2	Sequence 2, Appli
40	827	95.3	166	12	US-10-010-448-2	Sequence 23, Appli
41	799	92.1	166	14	US-10-449-456-23	Sequence 23, Appli
42	799	92.1	166	16	US-10-448-667-23	Sequence 4, Appli
43	799	92.1	187	9	US-09-725-433-4	Sequence 12, Appli
44	799	92.1	187	14	US-10-284-740-12	Sequence 26, Appli
45	795	91.6	166	10	US-09-832-658-26	

ALIGNMENTS

RESULT 1
US-09-832-658-24
; Sequence 24, Application US/09832658
; Publication No. US20030021765A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; APPLICANT: Pepinsky, Blake
; APPLICANT: Runkel, Laura
; APPLICANT: Brickelmaier, Margot
; APPLICANT: Whitty, Adrian
; APPLICANT: Hochman, Paula
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a
; TITLE OF INVENTION: and Uses
; FILE REFERENCE: A065PCT
; CURRENT APPLICATION NUMBER: US/09/832,658
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/104,572
; PRIOR FILING DATE: 1998-10-16
; PRIOR APPLICATION NUMBER: 60/120,161
; PRIOR FILING DATE: 1999-02-16
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 166
; TYPE: PRT
; ORGANISM: human
US-09-832-658-24

Query Match	98.2%	Score 852	DB 10	Length 166
Best Local Similarity	98.2%	Pred. No. 1.9e-81		
Matches 163	Conservative	0	Mismatches 3	Indels 0
Gaps	0			
Qy	1	MSYNLLGFLQSSNFQCKLLMOLNORLEYCLKDRNVPDIPBEIKOLOQFOKEDALITY	60	
Db	1	MSYNLLGFLQSSNFQCKLLMOLNORLEYCLKDRNVPDIPBEIKOLOQFOKEDALITY	60	
Qy	61	EMLONIPALFAAASSSTGNETIVNLLANVHQINHLKTVLEKLEKEDFTRGALMSSL	120	

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Db      61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
QY      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
Db      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match      96.7%; Score 839; DB 10; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFOFKEDAALTYI 60
Db      1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFOFKEDAALTYI 60
QY      61 EMLQNIFAIFAAASSTGWNTEIVENLLANYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
Db      61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
QY      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
Db      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Subhidas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT

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; ORGANISM: Homo sapiens
US-09-732-436-16

Query Match      96.7%; Score 839; DB 12; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFOFKEDAALTYI 60
Db      1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFOFKEDAALTYI 60
QY      61 EMLQNIFAIFAAASSTGWNTEIVENLLANYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
Db      61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
QY      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
Db      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorianne
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PPI8399.002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match      96.7%; Score 839; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFOFKEDAALTYI 60
Db      1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFOFKEDAALTYI 60
QY      61 EMLQNIFAIFAAASSTGWNTEIVENLLANYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
Db      61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
QY      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
Db      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTRUP, Joern
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30

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RESIST. 7

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; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: h1PNB mature sequence
US-10-084-706-2

Query Match          96.7%; Score 839; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
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Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 9
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US20030171284A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match          96.7%; Score 839; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLORSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
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QY 61 EMLQNIFAIPAAASSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
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Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
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Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 10
US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2002-12-19
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; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match          96.7%; Score 839; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLORSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
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Db 1 MSYNLLGFLORSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60

QY 61 EMLQNIFAIPAAASSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
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RESULT 11
US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match          96.7%; Score 839; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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Db 1 MSYNLLGFLORSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60

QY 61 EMLQNIFAIPAAASSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
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QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
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Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 12
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US2003018686A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewandter
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
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; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-449-456-1

Query Match          96.7%; Score 839; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Qy 61 EMLQNIFAFAAASSTGWNETIVENLLANYHOINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAFQDSSSTGWNETIVENLLANYHOINHLKTVLEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYIGRILHLKAKYSHCAWTIVRVEILRNFYINRLTGYLRLN 166
Db 121 HLKRYIGRILHLKAKYSHCAWTIVRVEILRNFYINRLTGYLRLN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBEY, Hans Thalesgard
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORNES, Claus
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/609,296
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: hifNB mature sequence
US-10-609-296-2

Query Match          96.7%; Score 839; DB 15; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Qy 61 EMLQNIFAFAAASSTGWNETIVENLLANYHOINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAFQDSSSTGWNETIVENLLANYHOINHLKTVLEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYIGRILHLKAKYSHCAWTIVRVEILRNFYINRLTGYLRLN 166
Db 121 HLKRYIGRILHLKAKYSHCAWTIVRVEILRNFYINRLTGYLRLN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-448-667-1

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Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Qy 61 EMLQNIFAFAAASSTGWNETIVENLLANYHOINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAFQDSSSTGWNETIVENLLANYHOINHLKTVLEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYIGRILHLKAKYSHCAWTIVRVEILRNFYINRLTGYLRLN 166
Db 121 HLKRYIGRILHLKAKYSHCAWTIVRVEILRNFYINRLTGYLRLN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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; Patent No. US2002015547A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses
; FILE REFERENCE: A064PCTSEQ
; CURRENT APPLICATION NUMBER: US/09/832,659
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/120,237
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/104,491
; PRIOR FILING DATE: 1998-10-16
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 183
; TYPE: PRT
; ORGANISM: murine
US-09-832-659-4

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Best Local Similarity 97.0%; Pred. No. 5e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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Db      18 MSYNLLGFLQSSNPFCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDALTIY 77
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Db      78 EMLQNIFAIFRODSSSTGNETIVENLLANYHQLNHLKTVLEEKLEKEDFTRGALMSSL 137
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QY      121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYRINRLTGYLRLN 166
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Db      138 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYRINRLTGYLRLN 183
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Search completed: May 19, 2004, 15:19:59
Job time : 33.2 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 Seconds
(without alignments)
669.524 Million cell updates/sec

Title: US-09-832-659A-51

Perfect score: 868

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Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*

- 1: /cgn2_6/ptodata/2/iaa/5A COMB pep.*
- 2: /cgn2_6/ptodata/2/iaa/5B COMB pep.*
- 3: /cgn2_6/ptodata/2/iaa/6A COMB pep.*
- 4: /cgn2_6/ptodata/2/iaa/6B COMB pep.*
- 5: /cgn2_6/ptodata/2/iaa/PCTUS COMB pep.*
- 6: /cgn2_6/ptodata/2/iaa/backfiles1 pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	839	96.7	166	4	US-09-397-992A-7
2	839	96.7	166	4	US-09-569-722A-1
3	839	96.7	166	4	US-09-648-569A-2
4	839	96.7	166	4	US-09-971-843-7
5	839	96.7	166	4	US-09-403-532B-1
6	839	96.7	166	4	US-09-482-941-5
7	839	96.7	166	6	5514567-4
8	839	96.7	187	3	US-09-206-903A-9
9	839	96.7	187	3	US-08-406-030A-30
10	839	96.7	187	3	US-09-202-122-9
11	839	96.7	187	3	US-09-206-935-7
12	839	96.7	187	4	US-09-206-936-7
13	839	96.7	187	4	US-09-487-792-4
14	839	96.7	187	4	US-09-908-594-4
15	839	96.7	187	4	US-09-919-622A-9
16	839	96.7	187	6	5514567-1
17	839	96.7	415	4	US-09-215-212-14
18	837	96.4	166	2	US-08-477-310A-1
19	834	96.1	166	1	US-08-213-448-1
20	834	96.1	166	3	US-08-912-768-1
21	834	96.1	166	4	US-09-569-722A-4
22	834	96.1	166	4	US-09-569-722A-18
23	834	96.1	166	5	PCT-US95-03206-1
24	834	96.1	187	3	US-08-912-768-3
25	832	95.9	166	4	US-09-487-792-21
26	832	95.9	166	4	US-09-908-594-21
27	831	95.7	187	1	US-08-026-758-22

28 830 95.6 166 4 US-09-331-260-2 Sequence 2, Appli
29 829 95.5 166 4 US-09-569-722A-5 Sequence 5, Appli
30 822 94.7 187 6 5326859-1 Patent No. 5326859
31 820 94.5 166 4 US-09-569-722A-13 Sequence 13, Appli
32 820 94.5 166 4 US-09-569-722A-19 Sequence 8, Appli
33 815 93.9 166 4 US-09-569-722A-8 Sequence 16, Appli
34 815 93.9 166 4 US-09-569-722A-16 Sequence 6, Appli
35 813 93.7 166 4 US-09-569-722A-6 Sequence 24, Appli
36 812 93.5 166 4 US-09-569-722A-24 Sequence 14, Appli
37 810 93.3 166 4 US-09-569-722A-14 Sequence 7, Appli
38 809 93.2 166 4 US-09-569-722A-7 Sequence 12, Appli
39 809 93.2 166 4 US-09-569-722A-12 Sequence 17, Appli
40 809 93.2 166 4 US-09-569-722A-17 Sequence 22, Appli
41 808 93.1 166 4 US-09-569-722A-22 Sequence 15, Appli
42 807 93.0 166 4 US-09-569-722A-15 Sequence 20, Appli
43 804 92.6 166 4 US-09-569-722A-20 Sequence 11, Appli
44 803 92.5 166 4 US-09-569-722A-11 Sequence 23, Appli
45 802 92.4 166 4 US-09-569-722A-23

ALIGNMENTS

RESULT 1
US-09-397-992A-7
; Sequence 7, Application US/09397992A
; Patent No. 6329175
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46
; CURRENT APPLICATION NUMBER: US/09/397,992A
; PRIOR FILING DATE: 1999-09-16
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-397-992A-7

Query Match 96.7%; Score 839; DB 4; Length 166;
Best Local Similarity 97.0%; Pred. No. 5,1e-84;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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QY 61 EMLQNIFAFAAASSTGCTGNETIVENLVYHOINHLKTVLEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAFRQDSSSTGCTGNETIVENLVYHOINHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYIGRILHYLKAKEYSHCAWTVRVEILNFYRINRLTGYLELN 166
DB 121 HLKRYIGRILHYLKAKEYSHCAWTVRVEILNFYRINRLTGYLELN 166

RESULT 2
US-09-569-722A-1
; Sequence 1, Application US/09569722A
; Patent No. 6514729
; GENERAL INFORMATION:
; APPLICANT: Bentzien, Joerg M

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; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY
; FILE REFERENCE: A-58059-1/RPT/RMS/RWK
; CURRENT APPLICATION NUMBER: US/09/569,722A
; PRIOR FILING DATE: 2000-05-11
; PRIOR APPLICATION NUMBER: US 60/133,785
; PRIOR FILING DATE: 1999-05-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-569-722A-1

Query Match          96.7%; Score 839; DB 4; Length 166;
Best Local Similarity 97.0%; Pred. No. 5.1e-84;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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DB 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60

QY 61 EMLQNIFAIPAAASSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHLKAKESHCAWTIVRVEILNFRINRLTGYLRN 166
DB 121 HLKRYVGRILHLKAKESHCAWTIVRVEILNFRINRLTGYLRN 166

RESULT 3
US-09-648-569A-2
; Sequence 2, Application US/09648569A
; Patent No. 6531122
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202u810
; CURRENT APPLICATION NUMBER: US/09/648,569A
; CURRENT FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-648-569A-2

Query Match          96.7%; Score 839; DB 4; Length 166;
Best Local Similarity 97.0%; Pred. No. 5.1e-84;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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QY 61 EMLQNIFAIPAAASSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHLKAKESHCAWTIVRVEILNFRINRLTGYLRN 166
DB 121 HLKRYVGRILHLKAKESHCAWTIVRVEILNFRINRLTGYLRN 166

RESULT 4
US-09-971-843-7
; Sequence 7, Application US/09971843
; Patent No. 6544505
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
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; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvoegel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match          96.7%; Score 839; DB 4; Length 166;
Best Local Similarity 97.0%; Pred. No. 5.1e-84;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60

QY 61 EMLQNIFAIPAAASSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHLKAKESHCAWTIVRVEILNFRINRLTGYLRN 166
DB 121 HLKRYVGRILHLKAKESHCAWTIVRVEILNFRINRLTGYLRN 166

RESULT 5
US-09-403-532E-1
; Sequence 1, Application US/09403532E
; Patent No. 6572853
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/09/403,532E
; CURRENT FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-403-532E-1

Query Match          96.7%; Score 839; DB 4; Length 166;
Best Local Similarity 97.0%; Pred. No. 5.1e-84;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60
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QY 61 EMLQNIFAFAAASSTGNETIVENLLANYHQNHLKTVLEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAFQDSSSTGNETIVENLLANYHQNHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYNRLTGYLRN 166
DB 121 HKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYNRLTGYLRN 166

RESULT 6

US-09-462-941-5
; Sequence 5, Application US/09462941
; Patent No. 6608183
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-462-941-5

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Best Local Similarity 97.0%; Pred. No. 5.1e-84;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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DB 61 EMLQNIFAFQDSSSTGNETIVENLLANYHQNHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYNRLTGYLRN 166
DB 121 HKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYNRLTGYLRN 166

RESULT 7

5514567-4
; Patent No. 5514567
; APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI, TADATSUGU
; TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID
; NUMBER OF SEQUENCES: 5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/400,179
; FILING DATE: 06-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 389,922
; FILING DATE: 18-JUN-1982
; APPLICATION NUMBER: 201,359
; FILING DATE: 27-OCT-1980
; SEQ ID NO: 4
; LENGTH: 166
5514567-4

Query Match 96.7%; Score 839; DB 6; Length 166;
Best Local Similarity 97.0%; Pred. No. 5.1e-84;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
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QY 61 EMLQNIFAFAAASSTGNETIVENLLANYHQNHLKTVLEKLEKEDFTRGALMSSL 120
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QY 121 HKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYNRLTGYLRN 166
DB 121 HKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYNRLTGYLRN 166

RESULT 8

US-09-206-903A-9
; Sequence 9, Application US/09206903A
; Patent No. 6200780
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul J.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: P1224-2R1
; CURRENT APPLICATION NUMBER: US/09/206,903A
; CURRENT FILING DATE: 1998-12-07
; PRIOR APPLICATION NUMBER: US 60/106,463
; PRIOR FILING DATE: 1998-10-30
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-903A-9

Query Match 96.7%; Score 839; DB 3; Length 187;
Best Local Similarity 97.0%; Pred. No. 6e-84;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 81
QY 61 EMLQNIFAFAAASSTGNETIVENLLANYHQNHLKTVLEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAFQDSSSTGNETIVENLLANYHQNHLKTVLEKLEKEDFTRGALMSSL 141
QY 121 HKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYNRLTGYLRN 166
DB 142 HKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYNRLTGYLRN 187

RESULT 9

US-08-406-030A-30
; Sequence 30, Application US/08406030A
; Patent No. 6270989
; GENERAL INFORMATION:
; APPLICANT: Treco, Douglas A.
; APPLICANT: Hartlein, Michael W.
; APPLICANT: Hauge, Brian M.
; APPLICANT: Selden, Richard F.
; TITLE OF INVENTION: Protein Production and Delivery
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.c.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/406.030A
FILING DATE: 17-MAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/243,391
FILING DATE: 13-MAY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/985,586
FILING DATE: 03-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/911,533
FILING DATE: 10-JUL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/787,840
FILING DATE: 05-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/789,188
FILING DATE: 05-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/11704
FILING DATE: 02-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/09627
FILING DATE: 05-NOV-1992
ATTORNEY/AGENT INFORMATION:
NAME: Granahan, Patricia
REGISTRATION NUMBER: 32,227
REFERENCE/DOCKET NUMBER: TKT95-01
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 187 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-406-030A-30

Query Match 96.7%; Score 839; DB 3; Length 187;
Best Local Similarity 97.0%; Pred. No. 6e-84;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
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DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 81
QY 61 EMLQNIFAIFAASSTGWNETHVENLLANYVHQLNHLKTVLEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFQDSSSTGWNETHVENLLANYVHQLNHLKTVLEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTVRVEILRNFRINRLTGYLRLN 166
DB 142 HLKRYVGRILHYLKAKEYSHCAWTVRVEILRNFRINRLTGYLRLN 187

RESULT 10
US-09-202-122-9
Sequence 9, Application US/09202122
Patent No. 6300475
GENERAL INFORMATION:
APPLICANT: Chen, Jian
APPLICANT: Godowski, Paul
APPLICANT: Wood, William I.
APPLICANT: Zhang, Dong-Xiao
TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
FILE REFERENCE: P1224R2 (filed)
CURRENT APPLICATION NUMBER: US/09/202,122
CURRENT FILING DATE: 1999-03-04
PRIOR APPLICATION NUMBER: PCT/US98/25672
PRIOR FILING DATE: 1998-12-03
NUMBER OF SEQ ID NOS: 12
SEQ ID NO 9

LENGTH: 187
TYPE: PRT
ORGANISM: Homo sapiens
US-09-202-122-9
Query Match 96.7%; Score 839; DB 3; Length 187;
Best Local Similarity 97.0%; Pred. No. 6e-84;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
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QY 61 EMLQNIFAIFAASSTGWNETHVENLLANYVHQLNHLKTVLEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFQDSSSTGWNETHVENLLANYVHQLNHLKTVLEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTVRVEILRNFRINRLTGYLRLN 166
DB 142 HLKRYVGRILHYLKAKEYSHCAWTVRVEILRNFRINRLTGYLRLN 187

RESULT 11
US-09-206-935-7
Sequence 7, Application US/09206935
Patent No. 6299877
GENERAL INFORMATION:
APPLICANT: Chen, Jian
APPLICANT: Godowski, Paul
APPLICANT: Wood, William I.
APPLICANT: Zhang, Dong-Xiao
TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
FILE REFERENCE: 11669.50US05
CURRENT APPLICATION NUMBER: US/09/206,935
CURRENT FILING DATE: 1998-12-07
EARLIER APPLICATION NUMBER: 60/084,045
EARLIER FILING DATE: 1998-05-04
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patent in Ver. 2.0
SEQ ID NO 7
LENGTH: 187
TYPE: PRT
ORGANISM: Homo sapiens
US-09-206-935-7

Query Match 96.7%; Score 839; DB 3; Length 187;
Best Local Similarity 97.0%; Pred. No. 6e-84;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
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DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 81
QY 61 EMLQNIFAIFAASSTGWNETHVENLLANYVHQLNHLKTVLEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFQDSSSTGWNETHVENLLANYVHQLNHLKTVLEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTVRVEILRNFRINRLTGYLRLN 166
DB 142 HLKRYVGRILHYLKAKEYSHCAWTVRVEILRNFRINRLTGYLRLN 187

RESULT 12
US-09-206-936-7
Sequence 7, Application US/09206936A
Patent No. 6300475
GENERAL INFORMATION:
APPLICANT: Chen, Jian
APPLICANT: Wood, William I.
TITLE OF INVENTION: No. 6300475el Inteferon
FILE REFERENCE: P1224R1
CURRENT APPLICATION NUMBER: US/09/206,936A
CURRENT FILING DATE: 1998-12-07

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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-936-7

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Qy 61 EMLQNIFAIPAAASSSTGWNTEIVENLLANYHQAHLKTVLEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIPQDSSSTGWNTEIVENLLANYHQAHLKTVLEKLEKEDFTRGALMSSL 141

Qy 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 142 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 187

RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P1
; CURRENT APPLICATION NUMBER: US/09/487,792
; CURRENT FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-487-792-4

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Db 82 EMLQNIFAIPQDSSSTGWNTEIVENLLANYHQAHLKTVLEKLEKEDFTRGALMSSL 141

Qy 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 142 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 187

RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lafleur, et al
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2
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; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/292,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-908-594-4

Query Match
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Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 81

Qy 61 EMLQNIFAIPAAASSSTGWNTEIVENLLANYHQAHLKTVLEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIPQDSSSTGWNTEIVENLLANYHQAHLKTVLEKLEKEDFTRGALMSSL 141

Qy 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 142 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 187

RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/256672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-622A-9

Query Match
Best Local Similarity 96.7%; Score 839; DB 4; Length 187;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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Db	82	EWLQNI	FAIP	QD	SSSTG	NETI	VENLL	ANVH	QI	NH	LK	T	V	LE	E	K	E	D	F	T	R	C	A	L	M	S	S	L	141								
QY	121	HLKRY	YGR	I	L	H	L	K	A	K	E	Y	S	H	C	A	T	I	V	R	V	E	I	L	R	N	F	R	N	L	T	G	Y	L	R	N	166
Db	142	HLKRY	YGR	I	L	H	L	K	A	K	E	Y	S	H	C	A	T	I	V	R	V	E	I	L	R	N	F	R	N	L	T	G	Y	L	R	N	187

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Job time : 12.8 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds
(without alignments)
1391.307 Million cell updates/sec

Title: US-09-832-659A-50
Perfect score: 869
Sequence: 1 MSYNLLGFLQRSSNFQCKL.....RVEILRFYRINRLTGYLRN 166

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/FCI_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
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- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
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- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
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- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
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- 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	855	98.4	166	10	US-09-832-658-24
2	842	96.9	166	10	US-09-971-843-7
3	842	96.9	166	12	US-09-732-436-16
4	842	96.9	166	14	US-10-246-932-1
5	842	96.9	166	14	US-10-186-962-1
6	842	96.9	166	14	US-10-400-377-5
7	842	96.9	166	14	US-10-400-708-5
8	842	96.9	166	14	US-10-584-706-2
9	842	96.9	166	14	US-10-298-148-5
10	842	96.9	166	14	US-10-325-720-2
11	842	96.9	166	14	US-10-351-189-2
12	842	96.9	166	14	US-10-449-456-1
13	842	96.9	166	15	US-10-609-296-2
14	842	96.9	166	16	US-10-448-667-1
15	842	96.9	183	9	US-09-832-659-4

16	842	96.9	183	10	US-09-832-658-2	Sequence 2, Appli
17	842	96.9	186	12	US-10-449-831A-146	Sequence 146, App
18	842	96.9	187	9	US-09-788-552-1	Sequence 1, Appli
19	842	96.9	187	9	US-09-913-622A-9	Sequence 9, Appli
20	842	96.9	187	12	US-10-411-037-6	Sequence 6, Appli
21	842	96.9	187	12	US-09-881-050-17	Sequence 17, Appli
22	842	96.9	187	12	US-10-411-026-6	Sequence 6, Appli
23	842	96.9	187	13	US-10-004-201-2	Sequence 2, Appli
24	842	96.9	187	14	US-10-096-373-2	Sequence 9, Appli
25	842	96.9	187	14	US-10-418-038-9	Sequence 6, Appli
26	842	96.9	187	16	US-10-410-962-6	Sequence 6, Appli
27	842	96.9	187	16	US-10-411-049-6	Sequence 11, Appli
28	842	96.9	199	12	US-09-766-320B-11	Sequence 192, App
29	842	96.9	234	12	US-10-449-831A-192	Sequence 2, Appli
30	842	96.9	399	9	US-09-832-659-2	Sequence 1, Appli
31	840	96.7	166	12	US-10-035-420-1	Sequence 7, Appli
32	840	96.7	166	12	US-10-010-448-1	Sequence 2, Appli
33	839	96.5	187	9	US-09-927-850-7	Sequence 42, Appli
34	835	96.1	166	9	US-09-788-552-2	Sequence 44, Appli
35	833	95.9	418	9	US-09-832-659-4	Sequence 2, Appli
36	833	95.7	166	14	US-10-246-932-2	Sequence 1, Appli
37	832	95.7	166	15	US-10-168-956A-1	Sequence 2, Appli
38	831	95.6	166	12	US-10-035-420-2	Sequence 2, Appli
39	830	95.5	166	12	US-10-010-448-2	Sequence 25, Appli
40	830	95.5	166	10	US-09-832-658-25	Sequence 23, Appli
41	809	93.1	166	14	US-10-449-456-23	Sequence 23, Appli
42	802	92.3	166	16	US-10-448-667-23	Sequence 4, Appli
43	802	92.3	187	9	US-09-725-433-4	Sequence 12, Appli
44	802	92.3	187	14	US-10-284-740-12	
45	802	92.3	187	14	US-10-284-740-12	

ALIGNMENTS

RESULT 1

US-09-832-658-24
; Sequence 24, Application US/09832658
; Publication No. US20030021765A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; APPLICANT: Pepinsky, Blake
; APPLICANT: Runkel, Laura
; APPLICANT: Brickelmaier, Margot
; APPLICANT: Whitty, Adrian
; APPLICANT: Hochman, Paula
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a
; FILE REFERENCE: A065PCT
; CURRENT APPLICATION NUMBER: US/09/832,658
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/104,572
; PRIOR FILING DATE: 1998-10-16
; PRIOR APPLICATION NUMBER: 60/120,161
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 166
; TYPE: PRT
; ORGANISM: human
US-09-832-658-24

Query Match 98.4%; Score 855; DB 10; Length 166;
Best Local Similarity 98.2%; Pred. No. 3.4e-80;
Matches 163; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY	1	MSYNLLGFLQRSSNFQCKLWOLNGRLEYCLKDRWNDFEEIKQLQCFQKEDAAITY	60
DB	1	MSYNLLGFLQRSSNFQCKLWOLNGRLEYCLKDRWNDFEEIKQLQCFQKEDAAITY	60
QY	61	EMLANIASIFRQDSSTGWNETIVENLLANYVHQLNHLKTVLEEKLEKEDFTFRGALMSL	120

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Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-03-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PR
; ORGANISM: Homo sapiens
; US-09-971-843-7

Query Match 96.9%; Score 842; DB 10; Length 166;
Best Local Similarity 97.0%; Pred. No. 7.6e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFQRSNFCQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60
Db 1 MSYNLLGFQRSNFCQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60

QY 61 EMLANIASIFRODSSSTGNETIVENLLANYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANYHQINHLKTVLEBKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Subhidas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PR
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; ORGANISM: Homo sapiens
US-09-732-436-16

Query Match 96.9%; Score 842; DB 12; Length 166;
Best Local Similarity 97.0%; Pred. No. 7.6e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFQRSNFCQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60
Db 1 MSYNLLGFQRSNFCQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60

QY 61 EMLANIASIFRODSSSTGNETIVENLLANYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANYHQINHLKTVLEBKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorianne
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PP18399.002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PR
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match 96.9%; Score 842; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 7.6e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFQRSNFCQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60
Db 1 MSYNLLGFQRSNFCQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60

QY 61 EMLANIASIFRODSSSTGNETIVENLLANYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANYHQINHLKTVLEBKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTRUP, Joern
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 023208410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30
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; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRP
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match          96.9%; Score 842; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 7.6e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
    |||||
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
    |||||

QY 61 EMLANIASIFQDSSSTGWNTEIVENLLANYVHQINHLKTVLEBEKEDFTRGALMSSL 120
    |||||
DB 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQINHLKTVLEBEKEDFTRGALMSSL 120
    |||||

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNRYINRLTGYLRN 166
    |||||
DB 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNRYINRLTGYLRN 166
    |||||

RESULT 6
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRP
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          96.9%; Score 842; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 7.6e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
    |||||
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
    |||||

QY 61 EMLANIASIFQDSSSTGWNTEIVENLLANYVHQINHLKTVLEBEKEDFTRGALMSSL 120
    |||||
DB 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQINHLKTVLEBEKEDFTRGALMSSL 120
    |||||

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNRYINRLTGYLRN 166
    |||||
DB 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNRYINRLTGYLRN 166
    |||||

RESULT 7
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US2003016865A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRP
; ORGANISM: Homo sapiens
US-10-400-708-5

Query Match          96.9%; Score 842; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 7.6e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
    |||||
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
    |||||

QY 61 EMLANIASIFQDSSSTGWNTEIVENLLANYVHQINHLKTVLEBEKEDFTRGALMSSL 120
    |||||
DB 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQINHLKTVLEBEKEDFTRGALMSSL 120
    |||||

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNRYINRLTGYLRN 166
    |||||
DB 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNRYINRLTGYLRN 166
    |||||

RESULT 8
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jørn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalsg+rd
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRP
; ORGANISM: Homo sapiens
; FEATURE:
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; NAME/KEY: CHAIN
; LOCATION: (1)....(166)
; OTHER INFORMATION: hifnb mature sequence
US-10-084-706-2

Query Match
Best Local Similarity 96.9%; Score 842; DB 14; Length 166;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60
QY 61 EMLANIASIFQDSSSTGNETIVENLLANYVHQNHLKTVLEBKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGNETIVENLLANYVHQNHLKTVLEBKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166

RESULT 9
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US20030171284A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 5
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match
Best Local Similarity 96.9%; Score 842; DB 14; Length 166;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60
QY 61 EMLANIASIFQDSSSTGNETIVENLLANYVHQNHLKTVLEBKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGNETIVENLLANYVHQNHLKTVLEBKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166

RESULT 10
US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2002-12-19
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; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match
Best Local Similarity 96.9%; Score 842; DB 14; Length 166;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60
QY 61 EMLANIASIFQDSSSTGNETIVENLLANYVHQNHLKTVLEBKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGNETIVENLLANYVHQNHLKTVLEBKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166

RESULT 11
US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match
Best Local Similarity 96.9%; Score 842; DB 14; Length 166;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60
QY 61 EMLANIASIFQDSSSTGNETIVENLLANYVHQNHLKTVLEBKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGNETIVENLLANYVHQNHLKTVLEBKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166

RESULT 12
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US2003018686A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
```

```
; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-449-456-1

Query Match          96.9%; Score 842; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 7.6e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLVCLKDRMNFDPPEIKQLQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLVCLKDRMNFDPPEIKQLQFQKEDAAITY 60

QY 61 EMLANIASIFQDSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalsg+rd
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORNES, Claus
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228ue410
; CURRENT APPLICATION NUMBER: US/10/609,296
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: h1PNB mature sequence
US-10-609-296-2

Query Match          96.9%; Score 842; DB 15; Length 166;
Best Local Similarity 97.0%; Pred. No. 7.6e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLVCLKDRMNFDPPEIKQLQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLVCLKDRMNFDPPEIKQLQFQKEDAAITY 60

QY 61 EMLANIASIFQDSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-448-667-1

Query Match          96.9%; Score 842; DB 16; Length 166;
Best Local Similarity 97.0%; Pred. No. 7.6e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLVCLKDRMNFDPPEIKQLQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLVCLKDRMNFDPPEIKQLQFQKEDAAITY 60

QY 61 EMLANIASIFQDSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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Patent No. US20020155547A1
GENERAL INFORMATION:
APPLICANT: BIOGEN, INC.
TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses
FILE REFERENCE: A064PCTSEQ
CURRENT APPLICATION NUMBER: US/09/832,659
CURRENT FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: 60/120,237
PRIOR FILING DATE: 1998-02-16
PRIOR APPLICATION NUMBER: 60/104,491
PRIOR FILING DATE: 1998-10-16
NUMBER OF SEQ ID NOS: 44
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 4
LENGTH: 183
TYPE: PRT
ORGANISM: murine
US-09-832-659-4

Query Match 96.9%; Score 842; DB 9; Length 183;
Best Local Similarity 97.0%; Pred. No. 8.6e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
QY 1 MSYNLLGFLQSSNFCCQKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFOKEDALTIY 60
DB 18 MSYNLLGFLQSSNFCCQKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFOKEDALTIY 77
QY 61 EMLANIASFRODSSSTGWNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
DB 78 EMLQNFIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 137
QY 121 HLKRYGRIILHYLKAKESHCAWTIVRVEILNRYINRLTGYLRN 166
DB 138 HLKRYGRIILHYLKAKESHCAWTIVRVEILNRYINRLTGYLRN 183

Search completed: May 19, 2004, 15:19:59
Job time : 34.2 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 Seconds
(without alignments)
669.524 Million cell updates/sec

Title: US-09-832-659A-49
Perfect score: 865
Sequence: 1 MSYNLLGFLQSSNFQCQKL.....RVEILRNFYRINLTGYLRN 166

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	812	93.9	166	4	US-09-397-992A-7
2	812	93.9	166	4	US-09-569-722A-1
3	812	93.9	166	4	US-09-648-569A-2
4	812	93.9	166	4	US-09-971-843-7
5	812	93.9	166	4	US-09-403-532E-1
6	812	93.9	166	4	US-09-463-941-5
7	812	93.9	166	6	5314567-4
8	812	93.9	187	3	US-09-206-903A-9
9	812	93.9	187	3	US-08-406-030A-30
10	812	93.9	187	3	US-09-202-122-9
11	812	93.9	187	3	US-09-206-935-7
12	812	93.9	187	4	US-09-206-936-7
13	812	93.9	187	4	US-09-487-792-4
14	812	93.9	187	4	US-09-908-594-4
15	812	93.9	187	4	US-09-913-622A-9
16	812	93.9	187	6	5314567-1
17	812	93.9	415	4	US-09-215-212-14
18	810	93.6	166	2	US-08-477-310A-1
19	807	93.3	166	1	US-08-213-448-1
20	807	93.3	166	3	US-08-913-768-1
21	807	93.3	166	4	US-09-569-722A-4
22	807	93.3	166	4	US-09-569-722A-18
23	807	93.3	166	5	PCT-US95-03206-1
24	807	93.3	166	4	US-08-912-768-3
25	805	93.1	166	4	US-09-487-792-21
26	805	93.1	166	4	US-09-908-594-21
27	804	92.9	187	1	US-08-026-758-22

28	803	92.8	166	4	US-09-331-260-2	Sequence 2, Appli
29	802	92.7	166	4	US-09-569-722A-5	Sequence 5, Appli
30	795	91.9	187	6	5326859-1	Patent No. 5326859
31	793	91.7	166	4	US-09-569-722A-13	Sequence 13, Appl
32	793	91.7	166	4	US-09-569-722A-19	Sequence 19, Appl
33	788	91.1	166	4	US-09-569-722A-8	Sequence 8, Appli
34	788	91.1	166	4	US-09-569-722A-16	Sequence 16, Appl
35	786	90.9	166	4	US-09-569-722A-6	Sequence 6, Appli
36	785	90.8	166	4	US-09-569-722A-24	Sequence 24, Appl
37	783	90.5	166	4	US-09-569-722A-14	Sequence 14, Appl
38	782	90.4	166	4	US-09-569-722A-7	Sequence 7, Appli
39	782	90.4	166	4	US-09-569-722A-12	Sequence 12, Appl
40	782	90.4	166	4	US-09-569-722A-17	Sequence 17, Appl
41	781	90.3	166	4	US-09-569-722A-22	Sequence 22, Appl
42	780	90.2	166	4	US-09-569-722A-15	Sequence 15, Appl
43	780	90.2	166	4	US-09-403-532E-23	Sequence 23, Appl
44	777	89.8	166	4	US-09-569-722A-20	Sequence 20, Appl
45	776	89.7	166	4	US-09-569-722A-11	Sequence 11, Appl

ALIGNMENTS

RESULT 1
US-09-397-992A-7
; Sequence 7, Application US/09397992A
; Patent No. 6329175
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindesvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46
; CURRENT APPLICATION NUMBER: US/09/397,992A
; PRIOR FILING DATE: 1999-09-16
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-397-992A-7

Query Match	93.9%	Score	812	DB	4	Length	166
Best Local Similarity	94.0%	Pred. No.	3.4e-84				
Mismatches	156	Conservative	0	Mismatches	10	Indels	0
Gaps	0						
QY	1	MSYNLLGFLQSSNFQCQKLWQLNGRLEYCLKDRNFDIPEEIAAAAFADAALITY	60				
Db	1	MSYNLLGFLQSSNFQCQKLWQLNGRLEYCLKDRNFDIPEEIKOLOQFKEDALITY	60				
QY	61	EMLQNIFAIFRODSSSTGWNTEIVENLLANVHQINHLKTVLEEKLEKEDFTRGALMSSL	120				
Db	61	EMLQNIFAIFRODSSSTGWNTEIVENLLANVHQINHLKTVLEEKLEKEDFTRGALMSSL	120				
QY	121	HLKRYGRILHYLKAKEYSHCAWTVRVEILANFYRINLTGYLRN	166				
Db	121	HLKRYGRILHYLKAKEYSHCAWTVRVEILANFYRINLTGYLRN	166				

RESULT 2
US-09-569-722A-1
; Sequence 1, Application US/09569722A
; Patent No. 6514729
; GENERAL INFORMATION:
; APPLICANT: Bentsien, Joerg M

; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY

; FILE REFERENCE: A-68059-11RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/569,722A
; CURRENT FILING DATE: 2000-05-11
; PRIOR APPLICATION NUMBER: US 60/133,785
; PRIOR FILING DATE: 1999-05-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-569-722A-1

Query Match 93.9%; Score 812; DB 4; Length 166;
Best Local Similarity 94.0%; Pred. No. 3.4e-84;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIAAAAFADAALTY 60
Db 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAALTY 60
QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRLN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRLN 166

RESULT 3
US-09-648-569A-2
; Sequence 2, Application US/09648569A
; Patent No. 6531122
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202u810
; CURRENT APPLICATION NUMBER: US/09/648,569A
; CURRENT FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-648-569A-2

Query Match 93.9%; Score 812; DB 4; Length 166;
Best Local Similarity 94.0%; Pred. No. 3.4e-84;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIAAAAFADAALTY 60
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QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRLN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRLN 166

RESULT 4
US-09-971-843-7
; Sequence 7, Application US/09971843
; Patent No. 6544505
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.

; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvoegel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match 93.9%; Score 812; DB 4; Length 166;
Best Local Similarity 94.0%; Pred. No. 3.4e-84;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIAAAAFADAALTY 60
Db 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAALTY 60
QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRLN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRLN 166

RESULT 5
US-09-403-532E-1
; Sequence 1, Application US/09403532E
; Patent No. 6572853
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Poederung Angewan
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERPERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/09/403,532E
; CURRENT FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-403-532E-1

Query Match 93.9%; Score 812; DB 4; Length 166;
Best Local Similarity 94.0%; Pred. No. 3.4e-84;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIAAAAFADAALTY 60
Db 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAALTY 60

QY 61 EMLQNFALFRQSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNFALFRQSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166

RESULT 6

US-09-462-941-5
; Sequence 5, Application US/09462941
; Patent No. 608183
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-J-PUS
; CURRENT APPLICATION NUMBER: US/09/462,941
; CURRENT FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-462-941-5

Query Match 93.9%; Score 812; DB 4; Length 166;
Best Local Similarity 94.0%; Pred. No. 3.4e-84;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
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Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEETKQLQOKEDAALTYI 60
QY 61 EMLQNFALFRQSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNFALFRQSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166

RESULT 7

5514567-4
; Patent No. 5514567
; APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI,
; TADATSUGU
; TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID
; NUMBER OF SEQUENCES: 5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/400,179
; FILING DATE: 06-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 389,922
; FILING DATE: 19-JUN-1982
; APPLICATION NUMBER: 201,359
; FILING DATE: 27-OCT-1980
; SEQ ID NO: 4
; LENGTH: 166
5514567-4

Query Match 93.9%; Score 812; DB 6; Length 166;
Best Local Similarity 94.0%; Pred. No. 3.4e-84;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEETAAAAFAAADAALTYI 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEETKQLQOKEDAALTYI 60

QY 61 EMLQNFALFRQSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNFALFRQSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166

RESULT 8

US-09-206-903A-9
; Sequence 9, Application US/09206903A
; Patent No. 6200780
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul J.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: P1224-2R1
; CURRENT APPLICATION NUMBER: US/09/206,903A
; CURRENT FILING DATE: 1998-12-07
; PRIOR APPLICATION NUMBER: US 60/106,463
; PRIOR FILING DATE: 1998-10-30
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-903A-9

Query Match 93.9%; Score 812; DB 3; Length 187;
Best Local Similarity 94.0%; Pred. No. 4e-84;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
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Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEETKQLQOKEDAALTYI 81
QY 61 EMLQNFALFRQSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 82 EMLQNFALFRQSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166
Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 187

RESULT 9

US-08-406-030A-30
; Sequence 30, Application US/08406030A
; Patent No. 6270989
; GENERAL INFORMATION:
; APPLICANT: Treco, Douglas A.
; APPLICANT: Heartlein, Michael W.
; APPLICANT: Hauge, Brian M.
; APPLICANT: Selden, Richard F.
; TITLE OF INVENTION: Protein Production and Delivery
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:

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/ APPLICATION NUMBER: US/08/406,030A
/ FILING DATE: 17-MAR-1995
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/243,391
/ FILING DATE: 13-MAY-1994
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/985,586
/ FILING DATE: 03-DEC-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/911,533
/ FILING DATE: 10-JUL-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/787,840
/ FILING DATE: 05-NOV-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/789,188
/ FILING DATE: 05-NOV-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: PCT/US93/11704
/ FILING DATE: 02-DEC-1993
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: PCT/US92/09627
/ FILING DATE: 05-NOV-1992
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Granahan, Patricia
/ REGISTRATION NUMBER: 32,227
/ REFERENCE/DOCKET NUMBER: TKT95-01
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 861-6240
/ TELEFAX: (617) 861-9540
/ INFORMATION FOR SEQ ID NO: 30:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 187 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-406-030A-30

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Best Local Similarity 94.0%; Pred. No. 4e-84;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLMQLNGRLVCYCLKDRMNFDPPEIAAAAAFAAADAALTYI 60
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Db 22 MSYNLLGFLQSSNFQCKLLMQLNGRLVCYCLKDRMNFDPPEIKQLQOFKQEDALTYI 81
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QY 61 EMLQNIFAFPRQSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
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Db 82 EMLQNIFAFPRQSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
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QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
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Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 187
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RESULT 10
US-09-202-122-9
; Sequence 9, Application US/09202122
; Patent No. 629869
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2 (filed)
; CURRENT APPLICATION NUMBER: US/09/202,122
; CURRENT FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9

Query Match          93.9%; Score 812; DB 3; Length 187;
Best Local Similarity 94.0%; Pred. No. 4e-84;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

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Db 22 MSYNLLGFLQSSNFQCKLLMQLNGRLVCYCLKDRMNFDPPEIKQLQOFKQEDALTYI 81
   |||||

QY 61 EMLQNIFAFPRQSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||||
Db 82 EMLQNIFAFPRQSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
   |||||

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
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Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 187
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RESULT 11
US-09-206-935-7
; Sequence 7, Application US/09206935
; Patent No. 629877
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: 11669.50US05
; CURRENT APPLICATION NUMBER: US/09/206,935
; CURRENT FILING DATE: 1998-12-07
; EARLIER APPLICATION NUMBER: 60/084,045
; EARLIER FILING DATE: 1998-05-04
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-206-935-7

Query Match          93.9%; Score 812; DB 3; Length 187;
Best Local Similarity 94.0%; Pred. No. 4e-84;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

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Db 22 MSYNLLGFLQSSNFQCKLLMQLNGRLVCYCLKDRMNFDPPEIKQLQOFKQEDALTYI 81
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QY 61 EMLQNIFAFPRQSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
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Db 82 EMLQNIFAFPRQSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
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QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
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Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 187
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RESULT 12
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; Sequence 7, Application US/09206936A
; Patent No. 6300475
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: NO. 6300475el Inteferon
; FILE REFERENCE: P1224R1
; CURRENT APPLICATION NUMBER: US/09/206,936A
; CURRENT FILING DATE: 1998-12-07
; SEQ ID NO 9
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; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-936-7

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Best Local Similarity 94.0%; Pred. No. 4e-84;
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Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQPFQKDAALTYI 81
Qy 61 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQNHLKTVLEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQNHLKTVLEKLEKEDFTRGALMSSL 141
Qy 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYRINRLTYGLRN 166
Db 142 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYRINRLTYGLRN 187

RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P1
; CURRENT APPLICATION NUMBER: US/09/487,792
; CURRENT FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-487-792-4

Query Match          93.9%; Score 812; DB 4; Length 187;
Best Local Similarity 94.0%; Pred. No. 4e-84;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

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Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQPFQKDAALTYI 81
Qy 61 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQNHLKTVLEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQNHLKTVLEKLEKEDFTRGALMSSL 141
Qy 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYRINRLTYGLRN 166
Db 142 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYRINRLTYGLRN 187

RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lafleur, et al.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2
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; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/292,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-908-594-4
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Query Match          93.9%; Score 812; DB 4; Length 187;
Best Local Similarity 94.0%; Pred. No. 4e-84;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIAAAAFAAADAALTYI 60
Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQPFQKDAALTYI 81
Qy 61 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQNHLKTVLEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQNHLKTVLEKLEKEDFTRGALMSSL 141
Qy 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYRINRLTYGLRN 166
Db 142 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYRINRLTYGLRN 187
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RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/256672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-622A-9
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Query Match          93.9%; Score 812; DB 4; Length 187;
Best Local Similarity 94.0%; Pred. No. 4e-84;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIAAAAFAAADAALTYI 60
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Qy	121	HLKRY	YGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLEN	166
Db	142	HLKRY	YGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLEN	187

Search completed: May 19, 2004, 14:26:10
Job time : 13.8 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds
(without alignments)
1391.307 Million cell updates/sec

Title: US-09-832-659A-49
Perfect score: 865
Sequence: 1 MSYNLLGFLQSSNFQCKL.....RVEILNFYRNLTGYLRN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	812	93.9	166	14	US-09-832-658-24
5	812	93.9	166	14	US-09-832-658-24
6	812	93.9	166	14	US-09-832-658-24
7	812	93.9	166	14	US-09-832-658-24
8	812	93.9	166	14	US-09-832-658-24
9	812	93.9	166	14	US-09-832-658-24
10	812	93.9	166	14	US-09-832-658-24
11	812	93.9	166	14	US-09-832-658-24
12	812	93.9	166	14	US-09-832-658-24
13	812	93.9	166	15	US-09-832-658-24
14	812	93.9	166	16	US-09-832-658-24
15	812	93.9	183	9	US-09-832-659-4

16	812	93.9	183	10	US-09-832-658-2	Sequence 2, Appli
17	812	93.9	186	12	US-10-449-831A-146	Sequence 146, App
18	812	93.9	187	9	US-09-788-552-1	Sequence 1, Appli
19	812	93.9	187	9	US-09-919-632A-9	Sequence 9, Appli
20	812	93.9	187	12	US-10-411-037-6	Sequence 6, Appli
21	812	93.9	187	12	US-09-881-050-17	Sequence 17, Appli
22	812	93.9	187	12	US-10-411-026-6	Sequence 6, Appli
23	812	93.9	187	13	US-10-004-201-2	Sequence 2, Appli
24	812	93.9	187	14	US-10-096-373-2	Sequence 2, Appli
25	812	93.9	187	14	US-10-418-038-9	Sequence 9, Appli
26	812	93.9	187	16	US-10-410-962-6	Sequence 6, Appli
27	812	93.9	187	16	US-10-411-049-6	Sequence 6, Appli
28	812	93.9	199	12	US-03-766-920B-11	Sequence 11, Appli
29	812	93.9	234	12	US-10-449-831A-192	Sequence 192, App
30	812	93.9	399	9	US-09-832-659-2	Sequence 2, Appli
31	810	93.6	166	12	US-10-035-420-1	Sequence 1, Appli
32	810	93.6	166	12	US-10-010-448-1	Sequence 7, Appli
33	809	93.5	187	9	US-09-927-850-7	Sequence 2, Appli
34	805	93.1	166	9	US-09-788-552-2	Sequence 2, Appli
35	803	92.8	418	9	US-09-832-659-42	Sequence 42, Appli
36	803	92.8	423	9	US-09-832-659-44	Sequence 44, Appli
37	802	92.7	166	14	US-10-246-932-2	Sequence 2, Appli
38	801	92.6	166	15	US-10-168-956A-1	Sequence 1, Appli
39	800	92.5	166	12	US-10-035-420-2	Sequence 2, Appli
40	800	92.5	166	12	US-10-010-448-2	Sequence 2, Appli
41	783	90.6	167	10	US-09-832-658-29	Sequence 29, Appli
42	780	90.2	166	14	US-10-449-456-23	Sequence 23, Appli
43	780	90.2	166	16	US-10-448-567-23	Sequence 56, Appli
44	778	89.9	166	14	US-10-084-706-56	Sequence 56, Appli
45	778	89.9	166	15	US-10-609-296-56	Sequence 56, Appli

ALIGNMENTS

RESULT 1

US-09-832-658-24

; Sequence 24, Application US/09832658

; Publication No. US20030021765A1

; GENERAL INFORMATION:

; APPLICANT: BIOGEN, INC.

; APPLICANT: Pepinsky, Blake

; APPLICANT: Runkel, Laura

; APPLICANT: Bruckmaier, Margot

; APPLICANT: Whitty, Adrian

; APPLICANT: Hochman, Paula

; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a

; TITLE OF INVENTION: and Uses

; FILE REFERENCE: A065PCT

; CURRENT APPLICATION NUMBER: US/09/832,658

; CURRENT FILING DATE: 2001-04-11

; PRIOR APPLICATION NUMBER: 60/104,572

; PRIOR FILING DATE: 1998-10-16

; PRIOR APPLICATION NUMBER: 60/120,161

; PRIOR FILING DATE: 1999-02-16

; NUMBER OF SEQ ID NOS: 29

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 24

; LENGTH: 166

; TYPE: PRT

; ORGANISM: human

US-09-832-658-24

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Best Local Similarity 95.2%; Pred. No. 2.9e-81;

Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

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Db 1 MSYNLLGFLQSSNFQCKLWQLNGRLEYCLKDRMNFDPPEIKOLOQFKEDAALTY 60

QY 61 EMLONTAIPROSSSTGWNTEIVENLLANTHQINHLKTVLEBKLEKEDFTFGALMSL 120

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Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQLNHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Rixon, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PR1
; ORGANISM: Homo sapiens
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Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
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QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQLNHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQLNHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
RESULT 3
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; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Subhidas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
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; TYPE: PR1
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; ORGANISM: Homo sapiens
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Best Local Similarity 94.0%; Pred. No. 7.5e-80;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
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QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQLNHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQLNHLKTVLEEKLEKEDFTRGALMSSL 120
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Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lozianne
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PPI8399.002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PR1
; ORGANISM: Homo sapiens
US-10-246-932-1
Query Match 93.9%; Score 812; DB 14; Length 166;
Best Local Similarity 94.0%; Pred. No. 7.5e-80;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEEIAAAAFAAADAALTY 60
Db 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEEIKOLOQFKEDAAALTY 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQLNHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQLNHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTRUP, Joern
; APPLICANT: Maxygen APS
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30
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; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match      93.9%; Score 812; DB 14; Length 166;
Best Local Similarity 94.0%; Pred. No. 7.5e-80;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 MSYNLLGLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEEIAAAAAFAADAALTY 60
DB 1 MSYNLLGLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEEIKQLQQFKEDAALTY 60
QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQNHLKTVLEBKLEKEDFTFGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQNHLKTVLEBKLEKEDFTFGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166

RESULT 6
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match      93.9%; Score 812; DB 14; Length 166;
Best Local Similarity 94.0%; Pred. No. 7.5e-80;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 MSYNLLGLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEEIAAAAAFAADAALTY 60
DB 1 MSYNLLGLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEEIKQLQQFKEDAALTY 60
QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQNHLKTVLEBKLEKEDFTFGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQNHLKTVLEBKLEKEDFTFGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166

RESULT 7
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US20030166865A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-708-5

Query Match      93.9%; Score 812; DB 14; Length 166;
Best Local Similarity 94.0%; Pred. No. 7.5e-80;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 MSYNLLGLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEEIAAAAAFAADAALTY 60
DB 1 MSYNLLGLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEEIKQLQQFKEDAALTY 60
QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQNHLKTVLEBKLEKEDFTFGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQNHLKTVLEBKLEKEDFTFGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166

RESULT 8
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalsgard
; APPLICANT: ANDERSEN, Kim Vilbourn
; APPLICANT: BORNS, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
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/ NAME/KEY: CHAIN
/ LOCATION: (1)....(166)
/ OTHER INFORMATION: hifNB mature sequence
US-10-084-706-2

Query Match      93.9%; Score 812; DB 14; Length 166;
Best Local Similarity 94.0%; Pred. No. 7.5e-80;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIAAAAFADAALTYIY 60
Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDALTYIY 60
QY 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 9
US-10-298-148-5
/ Sequence 5, Application US/10298148
/ Publication No. US20030171284A1
/ GENERAL INFORMATION:
/ APPLICANT: Cox III, George N
/ TITLE OF INVENTION: Bolder Biotechnology, Inc.
/ FILE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
/ CURRENT APPLICATION NUMBER: US/10/298,148
/ CURRENT FILING DATE: 2002-11-15
/ PRIOR APPLICATION NUMBER: US/09/462,941
/ PRIOR FILING DATE: 2000-01-14
/ PRIOR APPLICATION NUMBER: 60/052,516
/ PRIOR FILING DATE: 1997-07-14
/ NUMBER OF SEQ ID NOS: 41
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 5
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-298-148-5

Query Match      93.9%; Score 812; DB 14; Length 166;
Best Local Similarity 94.0%; Pred. No. 7.5e-80;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIAAAAFADAALTYIY 60
Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDALTYIY 60
QY 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 10
US-10-325-720-2
/ Sequence 2, Application US/10325720
/ Publication No. US20030175240A1
/ GENERAL INFORMATION:
/ APPLICANT: Pedersen, A.H., et al.
/ TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
/ FILE REFERENCE: 020us820
/ CURRENT APPLICATION NUMBER: US/10/325,720
/ CURRENT FILING DATE: 2002-12-19

/ NAME/KEY: CHAIN
/ LOCATION: (1)....(166)
/ OTHER INFORMATION: hifNB mature sequence
US-10-084-706-2

Query Match      93.9%; Score 812; DB 14; Length 166;
Best Local Similarity 94.0%; Pred. No. 7.5e-80;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIAAAAFADAALTYIY 60
Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDALTYIY 60
QY 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 11
US-10-351-189-2
/ Sequence 2, Application US/10351189
/ Publication No. US20030175241A1
/ GENERAL INFORMATION:
/ APPLICANT: Pedersen, A.H., et al.
/ TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
/ FILE REFERENCE: 020us830
/ CURRENT APPLICATION NUMBER: US/10/351,189
/ CURRENT FILING DATE: 2003-01-24
/ PRIOR APPLICATION NUMBER: US/09/648,569
/ PRIOR FILING DATE: 2000-08-25
/ NUMBER OF SEQ ID NOS: 45
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 2
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-351-189-2

Query Match      93.9%; Score 812; DB 14; Length 166;
Best Local Similarity 94.0%; Pred. No. 7.5e-80;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIAAAAFADAALTYIY 60
Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDALTYIY 60
QY 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 12
US-10-449-456-1
/ Sequence 1, Application US/10449456
/ Publication No. US2003018686A1
/ GENERAL INFORMATION:
/ APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewandter
/ APPLICANT: Schneider-Fresenius, Christian
/ APPLICANT: Otto, Bernd
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; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-449-456-1

Query Match          93.9%; Score 812; DB 14; Length 166;
Best Local Similarity 94.0%; Pred. No. 7.5e-80;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEEIAAAAAFAADAALTYI 60
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Qy 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQLNHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQLNHLKTVLEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYRINRLTGYLRN 166
Db 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYRINRLTGYLRN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalgard
; APPLICANT: ANDERSEN, Kim Vilbourn
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen A/S
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/609,296
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: h1PNB mature sequence
US-10-609-296-2

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Best Local Similarity 94.0%; Pred. No. 7.5e-80;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

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Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEEIKQLQQFKEDAALTYI 60
Qy 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQLNHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQLNHLKTVLEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYRINRLTGYLRN 166
Db 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYRINRLTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-448-667-1

Query Match          93.9%; Score 812; DB 16; Length 166;
Best Local Similarity 94.0%; Pred. No. 7.5e-80;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEEIAAAAAFAADAALTYI 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEEIKQLQQFKEDAALTYI 60
Qy 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQLNHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQLNHLKTVLEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYRINRLTGYLRN 166
Db 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYRINRLTGYLRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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Patent No. US2002015547A1
GENERAL INFORMATION:
APPLICANT: BIOGEN, INC.
TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses
FILE REFERENCE: A064PCTSEQ
CURRENT APPLICATION NUMBER: US/09/832,659
CURRENT FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: 60/120,237
PRIOR FILING DATE: 1999-02-16
PRIOR APPLICATION NUMBER: 60/104,491
PRIOR FILING DATE: 1998-10-16
NUMBER OF SEQ ID NOS: 44
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 4
LENGTH: 183
TYPE: PRT
ORGANISM: murine
US-09-832-659-4

Query Match 93.9%; Score 812; DB 9; Length 183;
Best Local Similarity 94.0%; Pred. No. 8.6e-80;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
QY 1 MSYNLGLQSSNFQCKLLWQLNGRLEYCLKDRWNFDIPEEIAAAAAAPAAADAALTIY 60
DB 18 MSYNLGLQSSNFQCKLLWQLNGRLEYCLKDRWNFDIPEEIXQLQCFQKEDALTIY 77
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANYVHQINHLKTVLEKLEKEDFTRGALMSSL 120
DB 78 EMLQNIFAIFRODSSSTGNETIVENLLANYVHQINHLKTVLEKLEKEDFTRGALMSSL 137
QY 121 HLKRYGRILHLKAKYSHCAWTIVRVEILLNFYINRLTGYLEN 166
DB 138 HLKRYGRILHLKAKYSHCAWTIVRVEILLNFYINRLTGYLEN 183

Search completed: May 19, 2004, 15:19:58
Job time : 33.2 secs

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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds
(without alignments)

1391.307 Million cell updates/sec

Title: US-09-832-659A-48

Perfect score: 866

Sequence: 1 MSYNLLGFLQSSNFQCKL.....RVEILRNRYRNLRTGYLRN 166

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Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubaa/US06_PUBCOMB.pep.*
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- 7: /cgn2_6/ptodata/2/pubaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/2/pubaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/2/pubaa/US09B_PUBCOMB.pep.*
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- 18: /cgn2_6/ptodata/2/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	844	97.5	166	10	US-09-832-658-24
2	831	96.0	166	10	US-09-971-843-7
3	831	96.0	166	12	US-09-732-436-16
4	831	96.0	166	14	US-10-246-832-1
5	831	96.0	166	14	US-10-186-962-1
6	831	96.0	166	14	US-10-400-377-5
7	831	96.0	166	14	US-10-400-708-5
8	831	96.0	166	14	US-10-084-706-2
9	831	96.0	166	14	US-10-288-148-5
10	831	96.0	166	14	US-10-325-720-2
11	831	96.0	166	14	US-10-351-189-2
12	831	96.0	166	14	US-10-449-456-1
13	831	96.0	166	15	US-10-609-296-2
14	831	96.0	166	16	US-10-448-667-1
15	831	96.0	183	9	US-09-832-659-4

16	831	96.0	183	10	US-09-832-658-2	Sequence 2, Appli
17	831	96.0	186	12	US-10-449-831A-146	Sequence 146, App
18	831	96.0	187	9	US-09-788-552-1	Sequence 1, Appli
19	831	96.0	187	9	US-09-919-622A-9	Sequence 9, Appli
20	831	96.0	187	12	US-10-411-037-6	Sequence 17, Appli
21	831	96.0	187	12	US-09-881-050-17	Sequence 6, Appli
22	831	96.0	187	12	US-10-411-026-6	Sequence 2, Appli
23	831	96.0	187	13	US-10-004-201-2	Sequence 2, Appli
24	831	96.0	187	14	US-10-096-373-2	Sequence 9, Appli
25	831	96.0	187	14	US-10-418-038-9	Sequence 6, Appli
26	831	96.0	187	16	US-10-410-962-6	Sequence 6, Appli
27	831	96.0	187	16	US-10-411-049-6	Sequence 11, Appli
28	831	96.0	199	12	US-09-766-920B-11	Sequence 192, App
29	831	96.0	234	12	US-10-449-831A-192	Sequence 2, Appli
30	831	96.0	399	9	US-09-832-659-2	Sequence 1, Appli
31	829	95.7	166	12	US-10-035-420-1	Sequence 1, Appli
32	829	95.7	166	12	US-10-010-448-1	Sequence 7, Appli
33	828	95.6	187	9	US-09-927-850-7	Sequence 2, Appli
34	825	95.3	166	10	US-09-832-658-28	Sequence 2, Appli
35	824	95.2	166	9	US-09-788-552-2	Sequence 42, Appli
36	822	94.9	418	9	US-09-832-659-42	Sequence 44, Appli
37	822	94.9	423	9	US-09-832-659-44	Sequence 2, Appli
38	821	94.8	166	14	US-10-246-932-2	Sequence 2, Appli
39	820	94.7	166	15	US-10-168-956A-1	Sequence 2, Appli
40	819	94.6	166	12	US-10-035-420-2	Sequence 2, Appli
41	819	94.6	166	12	US-10-010-448-2	Sequence 2, Appli
42	797	92.0	187	9	US-09-725-433-4	Sequence 4, Appli
43	797	92.0	187	14	US-10-284-740-12	Sequence 12, Appli
44	791	91.3	166	14	US-10-449-456-23	Sequence 23, Appli
45	791	91.3	166	16	US-10-448-667-23	Sequence 23, Appli

ALIGNMENTS

RESULT 1

US-09-832-658-24
; Sequence 24, Application US/09832658
; Publication No. US20030021765A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; APPLICANT: Pepinsky, Blake
; APPLICANT: Runkel, Laura
; APPLICANT: Brickelmaier, Margot
; APPLICANT: Whitty, Adrian
; APPLICANT: Hochman, Paula
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a
; TITLE OF INVENTION: and Uses
; FILE REFERENCE: A065PCT
; CURRENT APPLICATION NUMBER: US/09/832,658
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/104,572
; PRIOR FILING DATE: 1998-10-16
; PRIOR APPLICATION NUMBER: 60/120,161
; PRIOR FILING DATE: 1999-02-16
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; TYPE: PRT
; LENGTH: 166
; ORGANISM: human
US-09-832-658-24

Query Match	97.5%	Score 844;	DB 10;	Length 166;
Best Local Similarity	97.6%	Pred. No. 4.9e-82;		
Matches 162;	Conservative	Mismatches 4;	Indels 0;	Gaps 0;
Qy	1	MSYNLLGFLQSSNFQCKLLWQNLGRLEYCLNDRAAFAPABIKOLOQFQKEDAAITY	60	
Db	1	MSYNLLGFLQSSNFQCKLLWQNLGRLEYCLNDRAAFAPABIKOLOQFQKEDAAITY	60	
Qy	61	EMLONTAFPROSSSTGNETTIVENLLANVHQIHLKTYLEKLEKEDFTFGALMSSL	120	

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Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1999-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match 96.0%; Score 831; DB 10; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQNLGNRLCYCLKDRAPAFAPAEIKOLOQFOKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCKLLQNLGNRLCYCLKDRNFDIPEEIKOLOQFOKEDAAALTY 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Subhirdas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT

US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Subhirdas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT

US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1999-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match 96.0%; Score 831; DB 10; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQNLGNRLCYCLKDRAPAFAPAEIKOLOQFOKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCKLLQNLGNRLCYCLKDRNFDIPEEIKOLOQFOKEDAAALTY 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorianne
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PP18399,002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match 96.0%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQNLGNRLCYCLKDRAPAFAPAEIKOLOQFOKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCKLLQNLGNRLCYCLKDRNFDIPEEIKOLOQFOKEDAAALTY 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: Drustup, Joern
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30
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; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match          96.0%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQNLNGRLEYCLKDRAAFAPAEIKQLQOFQKEDAAITTY 60
DB 1 MSYNLLGFLQSSNFQCKLLQNLNGRLEYCLKDRAAFAPAEIKQLQOFQKEDAAITTY 60
QY 61 EMLQNIFAIFRODSSSTGWNETIVENLLANYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETIVENLLANYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166
DB 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166

RESULT 6
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          96.0%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQNLNGRLEYCLKDRAAFAPAEIKQLQOFQKEDAAITTY 60
DB 1 MSYNLLGFLQSSNFQCKLLQNLNGRLEYCLKDRAAFAPAEIKQLQOFQKEDAAITTY 60
QY 61 EMLQNIFAIFRODSSSTGWNETIVENLLANYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETIVENLLANYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166
DB 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166

RESULT 7
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US2003016685A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N

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; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-708-5

Query Match          96.0%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQNLNGRLEYCLKDRAAFAPAEIKQLQOFQKEDAAITTY 60
DB 1 MSYNLLGFLQSSNFQCKLLQNLNGRLEYCLKDRAAFAPAEIKQLQOFQKEDAAITTY 60
QY 61 EMLQNIFAIFRODSSSTGWNETIVENLLANYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETIVENLLANYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166
DB 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166

RESULT 8
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTUP, Jørn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thaisgard
; APPLICANT: ANDERSEN, Kim Vilbourn
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:

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; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: h1FNB mature sequence
US-10-084-706-2

Query Match          96.0%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRAPAFPAEIKQLQFQKEDAAITY 60
    |||||
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
    |||||

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
    |||||
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
    |||||

QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
    |||||
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
    |||||

RESULT 9
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US200301712841
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Bolder Biotechnology, Inc.
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; CURRENT FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match          96.0%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRAPAFPAEIKQLQFQKEDAAITY 60
    |||||
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
    |||||

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
    |||||
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
    |||||

QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
    |||||
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
    |||||

RESULT 10
US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2002-12-19
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; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match          96.0%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRAPAFPAEIKQLQFQKEDAAITY 60
    |||||
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
    |||||

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
    |||||
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
    |||||

QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
    |||||
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
    |||||

RESULT 11
US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match          96.0%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRAPAFPAEIKQLQFQKEDAAITY 60
    |||||
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
    |||||

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
    |||||
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
    |||||

QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
    |||||
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
    |||||

RESULT 12
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US2003018686A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewandter
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
```

; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-449-456-1

Query Match 96.0%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRAPAFPAEIKOLOQFOKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60

QY 61 EMLQNIPIAFRODSSSTGNETIVENLLANVYHQLNKTVEEKEDETRGALMSSL 120
DB 61 EMLQNIPIAFRODSSSTGNETIVENLLANVYHQLNKTVEEKEDETRGALMSSL 120

QY 121 HLKRYGRILHYLKAKESHCAMTIVRVEILRNFYINRLTGYLRN 166
DB 121 HLKRYGRILHYLKAKESHCAMTIVRVEILRNFYINRLTGYLRN 166

RESULT 13

US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Saad
; APPLICANT: DRUSTUP, Jørn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalsgrd
; APPLICANT: ANDERSEN, Kim Vilbourn
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/609,296
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2

; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: hIFNB mature sequence
US-10-609-296-2

Query Match 96.0%; Score 831; DB 15; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRAPAFPAEIKOLOQFOKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60

QY 61 EMLQNIPIAFRODSSSTGNETIVENLLANVYHQLNKTVEEKEDETRGALMSSL 120
DB 61 EMLQNIPIAFRODSSSTGNETIVENLLANVYHQLNKTVEEKEDETRGALMSSL 120

QY 121 HLKRYGRILHYLKAKESHCAMTIVRVEILRNFYINRLTGYLRN 166
DB 121 HLKRYGRILHYLKAKESHCAMTIVRVEILRNFYINRLTGYLRN 166

RESULT 14

US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-448-667-1

Query Match 96.0%; Score 831; DB 16; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRAPAFPAEIKOLOQFOKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60

QY 61 EMLQNIPIAFRODSSSTGNETIVENLLANVYHQLNKTVEEKEDETRGALMSSL 120
DB 61 EMLQNIPIAFRODSSSTGNETIVENLLANVYHQLNKTVEEKEDETRGALMSSL 120

QY 121 HLKRYGRILHYLKAKESHCAMTIVRVEILRNFYINRLTGYLRN 166
DB 121 HLKRYGRILHYLKAKESHCAMTIVRVEILRNFYINRLTGYLRN 166

RESULT 15

US-09-832-659-4
; Sequence 4, Application US/09832659

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; Patent No. US20020155547A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses
; FILE REFERENCE: A064ECTSEQ
; CURRENT APPLICATION NUMBER: US/09/832,659
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/120,237
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/104,491
; PRIOR FILING DATE: 1998-10-16
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 183
; TYPE: PRT
; ORGANISM: murine
US-09-832-659-4

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Query Match      96.0%; Score 831; DB 9; Length 183;
Best Local Similarity 96.4%; Pred. No. 1.3e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy      1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCKLDRAAPPAEIKQLQOFQKEDAAALTIY 60
Db      18 MSYNLLGFLQSSNFQCKLLWQNGRLEYCKLDRAAPPAEIKQLQOFQKEDAAALTIY 77

Qy      61 EMLQNIFAIPQDSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db      78 EMLQNIFAIPQDSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 137

Qy      121 HLKRYIGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINLTGYLRN 166
Db      138 HLKRYIGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINLTGYLRN 183

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Search completed: May 19, 2004, 15:19:58
Job time : 34.2 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 seconds
(without alignments)
669.524 Million cell updates/sec

Title: US-09-832-659A-48

Perfect score: 866

Sequence: 1 MSYNLLGLQSSNFQCKQL.....RVEILNRYINRLTGYLRN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:*
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6: /cgn2_6/prodata/2/iaa/backfiles1.pgp:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	831	96.0	166	4	US-09-397-992A-7
2	831	96.0	166	4	US-09-569-722A-1
3	831	96.0	166	4	US-09-648-569A-2
4	831	96.0	166	4	US-09-971-843-7
5	831	96.0	166	4	US-09-403-532E-1
6	831	96.0	166	4	US-09-462-941-5
7	831	96.0	166	6	5514567-4
8	831	96.0	187	3	US-09-206-903A-9
9	831	96.0	187	3	US-08-406-030A-30
10	831	96.0	187	3	US-09-202-122-9
11	831	96.0	187	3	US-09-208-935-7
12	831	96.0	187	4	US-09-206-936-7
13	831	96.0	187	4	US-09-487-792-4
14	831	96.0	187	4	US-09-908-594-4
15	831	96.0	187	4	US-09-919-622A-9
16	831	96.0	187	6	5514567-1
17	831	96.0	415	4	US-09-215-212-14
18	831	95.7	166	2	US-08-477-310A-1
19	826	95.4	166	1	US-08-213-448-1
20	826	95.4	166	3	US-08-912-768-1
21	826	95.4	166	4	US-09-569-722A-4
22	826	95.4	166	4	US-09-569-722A-18
23	826	95.4	166	5	PCT-US95-03206-1
24	826	95.4	187	3	US-08-912-768-3
25	824	95.2	166	4	US-09-487-792-21
26	824	95.2	166	4	US-09-908-594-21
27	823	95.0	187	1	US-08-026-756-22

ALIGNMENTS

RESULT 1

US-09-397-992A-7
; Sequence 7, Application US/09397992A

; Patent No. 6329175

; GENERAL INFORMATION:

; APPLICANT: Conklin, Darrell

; APPLICANT: Grant, Francis J.

; APPLICANT: Rixon, Mark W.

; APPLICANT: Kindsvogel, Wayne

; TITLE OF INVENTION: Interferon-epsilon

; FILE REFERENCE: 98-46

; CURRENT APPLICATION NUMBER: US/09/397,992A

; PRIOR FILING DATE: 1989-09-16

; PRIOR APPLICATION NUMBER: 60/101,012

; PRIOR FILING DATE: 1998-09-18

; PRIOR APPLICATION NUMBER: 60/118,578

; PRIOR FILING DATE: 1999-02-05

; PRIOR APPLICATION NUMBER: 60/142,766

; PRIOR FILING DATE: 1999-07-08

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 7

; LENGTH: 166

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-397-992A-7

Query Match 96.0%; Score 831; DB 4; Length 166;

Best Local Similarity 96.4%; Pred. No. 5.2e-85;

Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGLQSSNFQCKQLWQLNGLEYCLKDRRAFAIPATIKOQFQKEDALTY 60

Db 1 MSYNLLGLQSSNFQCKQLWQLNGLEYCLKDRMNFDPPEIKQFQKEDALTY 60

QY 61 EMLQNFAPFQDSSSTGWNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

Db 61 EMLQNFAPFQDSSSTGWNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HKKRYGRIILYKAKYSHCAWTIVRVEILNRYINRLTGYLRN 166

Db 121 HKKRYGRIILYKAKYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 2

US-09-569-722A-1

; Sequence 1, Application US/09569722A

; Patent No. 6514729

; GENERAL INFORMATION:

; APPLICANT: Bentzien, Joerg M

Sequence 2, Appli

Sequence 5, Appli

Patent No. 5326859

Sequence 13, Appl

Sequence 19, Appl

Sequence 8, Appli

Sequence 16, Appl

Sequence 6, Appli

Sequence 24, Appl

Sequence 14, Appl

Sequence 7, Appli

Sequence 12, Appl

Sequence 17, Appl

Sequence 22, Appl

Sequence 15, Appl

Sequence 20, Appl

Sequence 11, Appl

Sequence 23, Appl

166 4 US-09-331-260-2

166 4 US-09-569-722A-5

187 6 5326859-1

166 4 US-09-569-722A-13

166 4 US-09-569-722A-19

166 4 US-09-569-722A-8

166 4 US-09-569-722A-16

166 4 US-09-569-722A-5

166 4 US-09-569-722A-24

166 4 US-09-569-722A-14

166 4 US-09-569-722A-7

166 4 US-09-569-722A-12

166 4 US-09-569-722A-17

166 4 US-09-569-722A-17

166 4 US-09-569-722A-15

166 4 US-09-569-722A-20

166 4 US-09-569-722A-11

166 4 US-09-569-722A-23

794 91.7

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; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY
; FILE REFERENCE: A-6059-1/REF/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/569,722A
; CURRENT FILING DATE: 2000-05-11
; PRIOR APPLICATION NUMBER: US 60/133,785
; PRIOR FILING DATE: 1999-05-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-569-722A-1

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Query Match          96.0%; Score 831; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.2e-85;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRAAFAIPAIEIKOLOQFOKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60

QY 61 EMLQNIQFAIPQDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIQFAIPQDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKYSHCAWTVIRVEILNFRINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKYSHCAWTVIRVEILNFRINRLTGYLRN 166

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RESULT 3
US-09-648-569A-2
; Sequence 2, Application US/09648569A
; Patent No. 6531122
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us810
; CURRENT APPLICATION NUMBER: US/09/648,569A
; CURRENT FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-648-569A-2

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Query Match          96.0%; Score 831; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.2e-85;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60

QY 61 EMLQNIQFAIPQDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIQFAIPQDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKYSHCAWTVIRVEILNFRINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKYSHCAWTVIRVEILNFRINRLTGYLRN 166

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RESULT 4
US-09-971-843-7
; Sequence 7, Application US/09971843
; Patent No. 6544505
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.

```

```

; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindevogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

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Query Match          96.0%; Score 831; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.2e-85;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRAAFAIPAIEIKOLOQFOKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60

QY 61 EMLQNIQFAIPQDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIQFAIPQDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKYSHCAWTVIRVEILNFRINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKYSHCAWTVIRVEILNFRINRLTGYLRN 166

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RESULT 5
US-09-403-532E-1
; Sequence 1, Application US/09403532E
; Patent No. 6572853
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Maschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/09/403,532E
; CURRENT FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-403-532E-1

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Query Match          96.0%; Score 831; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.2e-85;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRAAFAIPAIEIKOLOQFOKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60

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QY 61 EMLQNIFAIFRQSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRQSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFFINRLTGYLRN 166
DB 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFFINRLTGYLRN 166

RESULT 6

US-09-462-941-5
; Sequence 5, Application US/09462941
; Patent No. 6608183
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/09/462,941
; CURRENT FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent in ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-462-941-5

Query Match 96.0%; Score 831; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.2e-85;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRAPFAIPAEIKOLOQFOKEDAAALTY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
QY 61 EMLQNIFAIFRQSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRQSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFFINRLTGYLRN 166
DB 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFFINRLTGYLRN 166

RESULT 7

5514567-4
; Patent No. 5514567
; APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI,
; TADATSUGU
; TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID
; NUMBER OF SEQUENCES: 5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/400,179
; FILING DATE: 06-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 389,922
; FILING DATE: 18-JUN-1982
; APPLICATION NUMBER: 201,359
; FILING DATE: 27-OCT-1980
; SEQ ID NO: 4
; LENGTH: 166
5514567-4

Query Match 96.0%; Score 831; DB 6; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.2e-85;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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DB 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60

QY 61 EMLQNIFAIFRQSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRQSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFFINRLTGYLRN 166
DB 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFFINRLTGYLRN 166

RESULT 8

US-09-206-903A-9
; Sequence 9, Application US/09206903A
; Patent No. 6200780
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul J.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: P1224-2R1
; CURRENT APPLICATION NUMBER: US/09/206,903A
; CURRENT FILING DATE: 1998-12-07
; PRIOR APPLICATION NUMBER: US 60/106,463
; PRIOR FILING DATE: 1998-10-30
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-903A-9

Query Match 96.0%; Score 831; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 6.1e-85;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRAPFAIPAEIKOLOQFOKEDAAALTY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 81
QY 61 EMLQNIFAIFRQSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRQSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFFINRLTGYLRN 166
DB 142 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFFINRLTGYLRN 187

RESULT 9

US-08-406-030A-30
; Sequence 30, Application US/08406030A
; Patent No. 6270989
; GENERAL INFORMATION:
; APPLICANT: Treco, Douglas A.
; APPLICANT: Heartlein, Michael W.
; APPLICANT: Hauge, Brian M.
; APPLICANT: Selden, Richard F.
; TITLE OF INVENTION: Protein Production and Delivery
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/406,030A
FILING DATE: 17-MAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/243,391
FILING DATE: 13-MAY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/985,586
FILING DATE: 03-DEC-1992
APPLICATION DATA:
APPLICATION NUMBER: US 07/911,533
FILING DATE: 10-JUL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/787,840
FILING DATE: 05-NOV-1991
APPLICATION DATA:
APPLICATION NUMBER: US 07/789,188
FILING DATE: 05-NOV-1991
APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/11704
FILING DATE: 02-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/09627
FILING DATE: 05-NOV-1992
ATTORNEY/AGENT INFORMATION:
NAME: Granahan, Patricia
REGISTRATION NUMBER: 32,227
REFERENCE/DOCKET NUMBER: TKT95-01
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 187 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-406-030A-30

Query Match 96.0%; Score 831; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 6.1e-85;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRAPAFPAEIKQLQFQKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPBEIKQLQFQKEDAAITY 81
QY 61 EMLQNIFAIPRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIPRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYGRILHYLKAKEYSHCAWTVRVEILRNFYINRLTGYLRN 166
DB 142 HLKRYGRILHYLKAKEYSHCAWTVRVEILRNFYINRLTGYLRN 187

RESULT 10
US-09-202-122-9
Sequence 9, Application US/09202122
Patent No. 6299869
GENERAL INFORMATION:
APPLICANT: Chen, Jian
APPLICANT: Godowski, Paul
APPLICANT: Wood, William I.
APPLICANT: Zhang, Dong-Xiao
TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
FILE REFERENCE: P1224R2 (filed)
CURRENT APPLICATION NUMBER: US/09/202,122
CURRENT FILING DATE: 1999-03-04
PRIOR APPLICATION NUMBER: PCT/US98/25672
PRIOR FILING DATE: 1998-12-03
NUMBER OF SEQ ID NOS: 12
SEQ ID NO 9

LENGTH: 187
TYPE: PRT
ORGANISM: Homo sapiens
US-09-202-122-9

Query Match 96.0%; Score 831; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 6.1e-85;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRAPAFPAEIKQLQFQKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPBEIKQLQFQKEDAAITY 81
QY 61 EMLQNIFAIPRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIPRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYGRILHYLKAKEYSHCAWTVRVEILRNFYINRLTGYLRN 166
DB 142 HLKRYGRILHYLKAKEYSHCAWTVRVEILRNFYINRLTGYLRN 187

RESULT 11
US-09-206-935-7
Sequence 7, Application US/09206935
Patent No. 6299877
GENERAL INFORMATION:
APPLICANT: Chen, Jian
APPLICANT: Godowski, Paul
APPLICANT: Wood, William I.
APPLICANT: Zhang, Dong-Xiao
TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
FILE REFERENCE: 11669.SOUS05
CURRENT APPLICATION NUMBER: US/09/206,935
CURRENT FILING DATE: 1998-12-07
EARLIER APPLICATION NUMBER: 60/084,045
EARLIER FILING DATE: 1998-05-04
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 7
LENGTH: 187
TYPE: PRT
ORGANISM: Homo sapiens
US-09-206-935-7

Query Match 96.0%; Score 831; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 6.1e-85;
Matches 160; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRAPAFPAEIKQLQFQKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPBEIKQLQFQKEDAAITY 81
QY 61 EMLQNIFAIPRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIPRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYGRILHYLKAKEYSHCAWTVRVEILRNFYINRLTGYLRN 166
DB 142 HLKRYGRILHYLKAKEYSHCAWTVRVEILRNFYINRLTGYLRN 187

RESULT 12
US-09-206-936-7
Sequence 7, Application US/09206936A
Patent No. 6300475
GENERAL INFORMATION:
APPLICANT: Chen, Jian
APPLICANT: Wood, William I.
TITLE OF INVENTION: No. 6300475el Interferon
FILE REFERENCE: P1224R1
CURRENT APPLICATION NUMBER: US/09/206,936A
CURRENT FILING DATE: 1998-12-07

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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-936-7

Query Match          96.0%; Score 831; DB 4; Length 187;
Best Local Similarity 96.4%; Pred. No. 6.1e-85;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWLNGLRLEYCLKDRAAFAIPAETKIQLOQFOKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLWLNGLRLEYCLKDRAAFAIPAETKIQLOQFOKEDAAITY 81

Qy 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 141

Qy 121 HLKRYGRIILHYLKAKEYSHCAWTVRVEILRNFRINRLTGYLRN 166
Db 142 HLKRYGRIILHYLKAKEYSHCAWTVRVEILRNFRINRLTGYLRN 187

RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P1
; CURRENT APPLICATION NUMBER: US/09/487,792
; CURRENT FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-487-792-4

Query Match          96.0%; Score 831; DB 4; Length 187;
Best Local Similarity 96.4%; Pred. No. 6.1e-85;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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Db 22 MSYNLLGFLQSSNFQCKLLWLNGLRLEYCLKDRAAFAIPAETKIQLOQFOKEDAAITY 81

Qy 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 141

Qy 121 HLKRYGRIILHYLKAKEYSHCAWTVRVEILRNFRINRLTGYLRN 166
Db 142 HLKRYGRIILHYLKAKEYSHCAWTVRVEILRNFRINRLTGYLRN 187

RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lapleur, et al.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2
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; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/292,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-908-594-4

Query Match          96.0%; Score 831; DB 4; Length 187;
Best Local Similarity 96.4%; Pred. No. 6.1e-85;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWLNGLRLEYCLKDRAAFAIPAETKIQLOQFOKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLWLNGLRLEYCLKDRAAFAIPAETKIQLOQFOKEDAAITY 81

Qy 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 141

Qy 121 HLKRYGRIILHYLKAKEYSHCAWTVRVEILRNFRINRLTGYLRN 166
Db 142 HLKRYGRIILHYLKAKEYSHCAWTVRVEILRNFRINRLTGYLRN 187

RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-622A-9

Query Match          96.0%; Score 831; DB 4; Length 187;
Best Local Similarity 96.4%; Pred. No. 6.1e-85;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWLNGLRLEYCLKDRAAFAIPAETKIQLOQFOKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLWLNGLRLEYCLKDRAAFAIPAETKIQLOQFOKEDAAITY 81
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Db	82	EMLQNI	FAI	FRQDSS	TGWN	ETI	VEN	LLAN	VYHQ	I	NH	KT	V	BE	K	E	K	E	D	F	T	R	G	A	L	M	S	S	L	141										
Qy	121	HLKRY	YGR	I	L	H	Y	L	K	A	K	E	Y	S	H	C	A	W	T	I	V	R	V	E	I	L	R	N	F	I	N	R	L	T	G	Y	L	R	N	166
Db	142	HLKRY	YGR	I	L	H	Y	L	K	A	K	E	Y	S	H	C	A	W	T	I	V	R	V	E	I	L	R	N	F	I	N	R	L	T	G	Y	L	R	N	187

Search completed: May 19, 2004, 14:26:09
Job time : 12.8 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds
(without alignments)
1391.307 Million cell updates/sec

Title: US-09-832-659A-47

Perfect score: 867

Sequence: 1 MSYLLGLFQRSSNFQCKL.....RVEILNFRINRLTGLN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US05_PUBCOMB.pep.*
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- 10: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
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- 15: /cgn2_6/ptodata/2/pubpaa/US03_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US02_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US01_PUBCOMB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US00_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	841	97.0	166	US-09-832-658-24	Sequence 24, Appl
2	828	95.5	166	US-09-832-658-24	Sequence 7, Appl
3	828	95.5	166	US-09-832-658-27	Sequence 27, Appl
4	828	95.5	166	US-09-732-436-16	Sequence 16, Appl
5	828	95.5	166	US-10-246-932-1	Sequence 1, Appl
6	828	95.5	166	US-10-186-962-1	Sequence 1, Appl
7	828	95.5	166	US-10-400-377-5	Sequence 5, Appl
8	828	95.5	166	US-10-400-708-5	Sequence 5, Appl
9	828	95.5	166	US-10-084-706-2	Sequence 2, Appl
10	828	95.5	166	US-10-298-148-5	Sequence 5, Appl
11	828	95.5	166	US-10-325-720-2	Sequence 2, Appl
12	828	95.5	166	US-10-351-189-2	Sequence 1, Appl
13	828	95.5	166	US-10-448-456-1	Sequence 2, Appl
14	828	95.5	166	US-10-609-296-2	Sequence 2, Appl
15	828	95.5	166	US-10-448-667-1	Sequence 1, Appl

16	828	95.5	183	9	US-09-832-659-4	Sequence 4, Appl
17	828	95.5	183	10	US-09-832-658-2	Sequence 2, Appl
18	828	95.5	186	12	US-10-449-831A-146	Sequence 146, App
19	828	95.5	187	9	US-09-788-552-1	Sequence 1, Appl
20	828	95.5	187	9	US-09-919-632A-9	Sequence 9, Appl
21	828	95.5	187	12	US-10-411-037-6	Sequence 6, Appl
22	828	95.5	187	12	US-09-881-050-17	Sequence 17, Appl
23	828	95.5	187	12	US-10-411-026-6	Sequence 6, Appl
24	828	95.5	187	13	US-10-004-201-2	Sequence 2, Appl
25	828	95.5	187	14	US-10-096-373-2	Sequence 2, Appl
26	828	95.5	187	14	US-10-418-038-9	Sequence 9, Appl
27	828	95.5	187	16	US-10-410-962-6	Sequence 6, Appl
28	828	95.5	187	16	US-10-411-049-6	Sequence 6, Appl
29	828	95.5	199	12	US-09-766-920B-11	Sequence 11, Appl
30	828	95.5	234	12	US-10-449-831A-192	Sequence 192, App
31	828	95.5	399	9	US-09-832-659-2	Sequence 2, Appl
32	828	95.5	399	9	US-10-035-420-1	Sequence 1, Appl
33	828	95.5	166	12	US-10-010-448-1	Sequence 7, Appl
34	828	95.5	187	9	US-09-927-850-7	Sequence 2, Appl
35	828	95.5	166	9	US-09-788-552-2	Sequence 42, Appl
36	828	95.5	418	9	US-09-832-659-42	Sequence 44, Appl
37	828	95.5	423	9	US-09-832-659-44	Sequence 2, Appl
38	828	95.5	166	14	US-10-246-932-2	Sequence 1, Appl
39	828	95.5	166	15	US-10-168-956A-1	Sequence 2, Appl
40	828	95.5	166	12	US-10-035-420-2	Sequence 2, Appl
41	828	95.5	166	12	US-10-010-448-2	Sequence 23, Appl
42	828	95.5	166	14	US-10-449-456-23	Sequence 23, Appl
43	828	95.5	166	16	US-10-448-667-23	Sequence 4, Appl
44	828	95.5	187	9	US-09-725-433-4	Sequence 12, Appl
45	828	95.5	187	14	US-10-284-740-12	

ALIGNMENTS

RESULT 1

US-09-832-658-24
; Sequence 24, Application US/09832658
; Publication No. US20030021765A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; APPLICANT: Pepinsky, Blake
; APPLICANT: Runkel, Laura
; APPLICANT: Bricekmaier, Margot
; APPLICANT: Whitty, Adrian
; APPLICANT: Hochman, Paula
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-la
; TITLE OF INVENTION: and Uses
; FILE REFERENCE: A065PCT
; CURRENT APPLICATION NUMBER: US/09/832,658
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/104,572
; PRIOR FILING DATE: 1998-10-16
; PRIOR APPLICATION NUMBER: 60/120,161
; PRIOR FILING DATE: 1999-02-16
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 166
; TYPE: PRT
; ORGANISM: human
US-09-832-658-24

Query Match 97.0%; Score 841; DB 10; Length 166;
Best Local Similarity 97.0%; Pred. No. 2.3e+80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYLLGLFQRSSNFQCKLWQLNGRAACAADMMNFDIPEEIKQLQFQKEDALTYI 60

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Db 61 EMLQNIFAIPRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYVGRILHYLKAKKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166
Db 121 HLKRYVGRILHYLKAKKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kinsdevogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match 95.5%; Score 828; DB 10; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 MSYNLLGFQORSNFOCKLLWQNGRAAACAAADRNWFDIPEIKQLQOFQKEDAAITTY 60
Db 1 MSYNLLGFQORSNFOCKLLWQNGRLEVCYCKDRWNFDIPEIKQLQOFQKEDAAITTY 60
Qy 61 EMLQNIFAIPRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYVGRILHYLKAKKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166
Db 121 HLKRYVGRILHYLKAKKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166

RESULT 3
US-09-832-658-27
; Sequence 27, Application US/09832658
; Publication No. US20030021765A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; APPLICANT: Pepinsky, Blake
; APPLICANT: Runkel, Laura
; APPLICANT: Brickelmaier, Margot
; APPLICANT: Whitty, Adrian
; APPLICANT: Hochman, Paula
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a
; FILE REFERENCE: A065PCT
; CURRENT APPLICATION NUMBER: US/09/832,658
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/104,572
; PRIOR FILING DATE: 1998-10-16
; PRIOR APPLICATION NUMBER: 60/120,161
; PRIOR FILING DATE: 1999-02-16
```

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; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 166
; TYPE: PRT
; ORGANISM: human
US-09-832-658-27

Query Match 95.5%; Score 828; DB 10; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSYNLLGFQORSNFOCKLLWQNGRAAACAAADRNWFDIPEIKQLQOFQKEDAAITTY 60
Db 1 MSYNLLGFQORSNFOCKLLWQNGRAAACAAADRNWFDIPEIKQLQOFQKEDAAITTY 60
Qy 61 EMLQNIFAIPRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYVGRILHYLKAKKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166
Db 121 HLKRYVGRILHYLKAKKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166

RESULT 4
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Pravaga, Subhirdas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-732-436-16

Query Match 95.5%; Score 828; DB 12; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 MSYNLLGFQORSNFOCKLLWQNGRAAACAAADRNWFDIPEIKQLQOFQKEDAAITTY 60
Db 1 MSYNLLGFQORSNFOCKLLWQNGRLEVCYCKDRWNFDIPEIKQLQOFQKEDAAITTY 60
Qy 61 EMLQNIFAIPRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYVGRILHYLKAKKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166
Db 121 HLKRYVGRILHYLKAKKEYSHCAWTIVRVEILRNFRINRLTGYLNR 166

RESULT 5
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorraine
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PPI8399.002
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; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match          95.5%; Score 828; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRAAACAAARMNFDIPEEIKQLQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEEIKQLQFQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNR 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNR 166

RESULT 6
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTEUP, Joern
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match          95.5%; Score 828; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRAAACAAARMNFDIPEEIKQLQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEEIKQLQFQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNR 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNR 166

RESULT 7
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTEUP, Joern
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match          95.5%; Score 828; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRAAACAAARMNFDIPEEIKQLQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEEIKQLQFQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNR 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNR 166

US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          95.5%; Score 828; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRAAACAAARMNFDIPEEIKQLQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEEIKQLQFQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNR 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNR 166

US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US20030166865A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-708-5

Query Match          95.5%; Score 828; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRAAACAAARMNFDIPEEIKQLQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEEIKQLQFQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNR 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNR 166
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QY 121 HKRYGRIILHYLKAKEYSHCAWTVIRVEILRNFRINRLTGILRN 166
DB 121 HKRYGRIILHYLKAKEYSHCAWTVIRVEILRNFRINRLTGILRN 166

RESULT 9

US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jørn
; APPLICANT: RASMUSSEN, Grette
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalesgard
; APPLICANT: ANDERSEN, Kim Vilbourn
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DX PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: hIFN β mature sequence
US-10-084-706-2

Query Match 95.5%; Score 828; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWLNQNGRAACAADRMNFDIPEEIKOLOQFOKEDAAITTY 60
DB 1 MSYNLLGFLQSSNFQCKLLWLNQNGRLCYCLKDRMNFDPPEEIKOLOQFOKEDAAITTY 60
QY 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HKRYGRIILHYLKAKEYSHCAWTVIRVEILRNFRINRLTGILRN 166
DB 121 HKRYGRIILHYLKAKEYSHCAWTVIRVEILRNFRINRLTGILRN 166

RESULT 10

US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US20030171284A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N

; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; CURRENT FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match 95.5%; Score 828; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWLNQNGRAACAADRMNFDIPEEIKOLOQFOKEDAAITTY 60
DB 1 MSYNLLGFLQSSNFQCKLLWLNQNGRLCYCLKDRMNFDPPEEIKOLOQFOKEDAAITTY 60
QY 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HKRYGRIILHYLKAKEYSHCAWTVIRVEILRNFRINRLTGILRN 166
DB 121 HKRYGRIILHYLKAKEYSHCAWTVIRVEILRNFRINRLTGILRN 166

RESULT 11

US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 020us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2002-12-19
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match 95.5%; Score 828; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWLNQNGRAACAADRMNFDIPEEIKOLOQFOKEDAAITTY 60
DB 1 MSYNLLGFLQSSNFQCKLLWLNQNGRLCYCLKDRMNFDPPEEIKOLOQFOKEDAAITTY 60
QY 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HKRYGRIILHYLKAKEYSHCAWTVIRVEILRNFRINRLTGILRN 166
DB 121 HKRYGRIILHYLKAKEYSHCAWTVIRVEILRNFRINRLTGILRN 166

RESULT 12

US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen, Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match 95.5%; Score 828; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRAAACAAADRMNFDIPEEIKOLOQFOKEDAAITTY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEEIKOLOQFOKEDAAITTY 60

QY 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
DB 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 13
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US20030186886A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-449-456-1

Query Match 95.5%; Score 828; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRAAACAAADRMNFDIPEEIKOLOQFOKEDAAITTY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEEIKOLOQFOKEDAAITTY 60

QY 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120

DB 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
DB 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 14
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalsgard
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/609,296
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: HIFNB mature sequence
US-10-609-296-2

Query Match 95.5%; Score 828; DB 15; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRAAACAAADRMNFDIPEEIKOLOQFOKEDAAITTY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEEIKOLOQFOKEDAAITTY 60

QY 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
DB 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 15
US-10-448-667-1

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; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Maschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-448-667-1

Query Match      95.5%; Score 828; DB 16; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY      1 MSYNLLGFLQSSNFQCCQKLLWQLNGRAACAAADRMNFDIPEEIKQLQOQFOKEDAAITLY 60
      |||||||
Db      1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEEIKQLQOQFOKEDAAITLY 60
      |||||||

QY      61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
      |||||||
Db      61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
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QY      121 HLKRYVGRILHLVYLKKEYSHCAWTIVRVEILRNFTYRINRLTGYLRLN 166
      |||||||
Db      121 HLKRYVGRILHLVYLKKEYSHCAWTIVRVEILENFYFINRLTGYLRLN 166
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Search completed: May 19, 2004, 15:19:57
Job time : 33.2 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds
(without alignments)
1391.307 Million cell updates/sec

Title: US-09-832-659A-46
Perfect score: 859
Sequence: 1 MSYNLLGFLQSSNAACAAL.....RVEILRNFYRINLTGYLRN 166

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
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- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	826	96.2	166	10	US-09-832-658-24
2	813	94.6	166	10	US-09-971-843-7
3	813	94.6	166	12	US-09-732-436-16
4	813	94.6	166	14	US-10-246-932-1
5	813	94.6	166	14	US-10-186-962-1
6	813	94.6	166	14	US-10-400-377-5
7	813	94.6	166	14	US-10-400-708-5
8	813	94.6	166	14	US-10-084-706-2
9	813	94.6	166	14	US-10-298-148-5
10	813	94.6	166	14	US-10-325-720-2
11	813	94.6	166	14	US-10-351-189-2
12	813	94.6	166	14	US-10-449-456-1
13	813	94.6	166	15	US-10-609-296-2
14	813	94.6	166	16	US-10-448-667-1
15	813	94.6	183	9	US-09-832-659-4

16	813	94.6	183	10	US-09-832-658-2	Sequence 2, Appli
17	813	94.6	186	12	US-10-449-831A-146	Sequence 146, App
18	813	94.6	187	9	US-09-788-552-1	Sequence 1, Appli
19	813	94.6	187	9	US-09-919-622A-9	Sequence 9, Appli
20	813	94.6	187	12	US-10-411-037-6	Sequence 6, Appli
21	813	94.6	187	12	US-09-881-050-17	Sequence 17, Appli
22	813	94.6	187	12	US-10-411-026-6	Sequence 6, Appli
23	813	94.6	187	13	US-10-004-201-2	Sequence 2, Appli
24	813	94.6	187	14	US-10-036-373-2	Sequence 9, Appli
25	813	94.6	187	14	US-10-418-038-9	Sequence 6, Appli
26	813	94.6	187	16	US-10-410-962-6	Sequence 11, Appli
27	813	94.6	187	16	US-10-411-049-6	Sequence 192, App
28	813	94.6	199	12	US-09-766-920B-11	Sequence 2, Appli
29	813	94.6	234	12	US-10-449-831A-192	Sequence 26, Appli
30	813	94.6	399	9	US-09-832-659-2	Sequence 1, Appli
31	812	94.5	166	10	US-09-832-658-26	Sequence 1, Appli
32	811	94.4	166	12	US-10-035-420-1	Sequence 7, Appli
33	811	94.4	166	12	US-10-010-448-1	Sequence 42, Appli
34	810	94.3	187	9	US-09-927-850-7	Sequence 44, Appli
35	806	93.8	166	9	US-09-788-553-2	Sequence 2, Appli
36	804	93.6	418	9	US-09-832-659-42	Sequence 2, Appli
37	803	93.5	423	9	US-09-832-659-44	Sequence 1, Appli
38	803	93.5	166	14	US-10-246-932-2	Sequence 2, Appli
39	802	93.4	166	15	US-10-168-956A-1	Sequence 1, Appli
40	801	93.2	166	12	US-10-035-420-2	Sequence 2, Appli
41	801	93.2	166	12	US-10-010-448-2	Sequence 4, Appli
42	783	91.2	187	9	US-09-725-433-4	Sequence 12, Appli
43	783	91.2	187	14	US-10-284-740-12	Sequence 23, Appli
44	773	90.0	166	14	US-10-449-456-23	Sequence 23, Appli
45	773	90.0	166	16	US-10-448-667-23	

ALIGNMENTS

RESULT 1

US-09-832-658-24
; Sequence 24, Application US/09832658
; Publication No. US20030021765A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; APPLICANT: Pepinsky, Blake
; APPLICANT: Runkel, Laura
; APPLICANT: Brickelmaier, Margot
; APPLICANT: Whitty, Adrian
; APPLICANT: Hochman, Paula
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a
; TITLE OF INVENTION: and Uses
; FILE REFERENCE: A065PCT
; CURRENT APPLICATION NUMBER: US/09/832,658
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/104,572
; PRIOR FILING DATE: 1998-10-16
; PRIOR APPLICATION NUMBER: 60/120,161
; PRIOR FILING DATE: 1999-02-16
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 166
; TYPE: PRT
; ORGANISM: human
US-09-832-658-24

Query Match 96.2%; Score 826; DB 10; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.9e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNAACAALALNGRLEVCCKDRNFDIPEIKQLQFQKEDALTIY 60

Db 1 MSYNLLGFLQSSNFQCKLLQNLGNRLEVCCKDRNFDIPEIKQLQFQKEDALTIY 60

Qy 61 EMLGNLFAIPQDSSSTGMNLTIVENLLANVYHQINHLKTVLBEKLEKEDFTGALMSSL 120

Db 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIILHYLKAKEYSHCAWTVRVEILRNFYINRLTGILRN 166
Db 121 HLKRYGRIILHYLKAKEYSHCAWTVRVEILRNFYINRLTGILRN 166

RESULT 2

US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR FILING DATE: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR FILING DATE: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR FILING DATE: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR FILING DATE: 09/387,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match 94.6%; Score 813; DB 10; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNACAAALAAALNGRLVCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
Db 1 MSYNLLGFLQSSNACAAALAAALNGRLVCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIILHYLKAKEYSHCAWTVRVEILRNFYINRLTGILRN 166
Db 121 HLKRYGRIILHYLKAKEYSHCAWTVRVEILRNFYINRLTGILRN 166

RESULT 3

US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Subhirdas K
; APPLICANT: Shinkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR FILING DATE: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR FILING DATE: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT

; ORGANISM: Homo sapiens
US-09-732-436-16

Query Match 94.6%; Score 813; DB 12; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNACAAALAAALNGRLVCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
Db 1 MSYNLLGFLQSSNACAAALAAALNGRLVCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIILHYLKAKEYSHCAWTVRVEILRNFYINRLTGILRN 166
Db 121 HLKRYGRIILHYLKAKEYSHCAWTVRVEILRNFYINRLTGILRN 166

RESULT 4

US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorianne
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PP18399,002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR FILING DATE: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match 94.6%; Score 813; DB 14; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNACAAALAAALNGRLVCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
Db 1 MSYNLLGFLQSSNACAAALAAALNGRLVCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIILHYLKAKEYSHCAWTVRVEILRNFYINRLTGILRN 166
Db 121 HLKRYGRIILHYLKAKEYSHCAWTVRVEILRNFYINRLTGILRN 166

RESULT 5

US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTRUP, Joern
; APPLICANT: Maxygen APS
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR FILING DATE: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR FILING DATE: 60/316,170
; PRIOR FILING DATE: 2001-08-30

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; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-186-962-1

Query Match          94.6%; Score 813; DB 14; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

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DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
QY 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKYSHCAWTVRVEILNRYFNRLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKYSHCAWTVRVEILNRYFNRLTGYLRN 166

RESULT 6
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-400-377-5

Query Match          94.6%; Score 813; DB 14; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
QY 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKYSHCAWTVRVEILNRYFNRLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKYSHCAWTVRVEILNRYFNRLTGYLRN 166

RESULT 7
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US20030166865A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N

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; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-400-708-5

Query Match          94.6%; Score 813; DB 14; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
QY 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKYSHCAWTVRVEILNRYFNRLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKYSHCAWTVRVEILNRYFNRLTGYLRN 166

RESULT 8
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalesgard
; APPLICANT: ANDERSEN, Kim Vilbourn
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERPERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:

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; NAME/KEY: CHAIN
; LOCATION: (1).....(166)
; OTHER INFORMATION: h1FNB mature sequence
US-10-084-706-2

Query Match
Best Local Similarity 94.6%; Score 813; DB 14; Length 166;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQRSNNAACAALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTYI 60
Db 1 MSYNLLGFLQRSNNAACAALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTYI 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRLN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRLN 166

RESULT 9
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US20030171284A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; CURRENT FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match
Best Local Similarity 94.6%; Score 813; DB 14; Length 166;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQRSNNAACAALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTYI 60
Db 1 MSYNLLGFLQRSNNAACAALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTYI 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRLN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRLN 166

RESULT 10
US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2002-12-19
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; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match
Best Local Similarity 94.6%; Score 813; DB 14; Length 166;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQRSNNAACAALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTYI 60
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QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRLN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRLN 166

RESULT 11
US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match
Best Local Similarity 94.6%; Score 813; DB 14; Length 166;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQRSNNAACAALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTYI 60
Db 1 MSYNLLGFLQRSNNAACAALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTYI 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRLN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRLN 166

RESULT 12
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US2003018686A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewandter
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
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; APPLICANT: Maschutzza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; PRIORITY FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-449-456-1

Query Match          94.6%; Score 813; DB 14; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNAACAAALAAALNGRLLEYCLKDRMNFDPPEIKQLQQFQKEDAAITLY 60
Db 1 MSYNLLGFLQSSNFQCKLLQNLGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITLY 60
Qy 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRVIRNLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRVIRNLTGYLRN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thales+rd
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/609,296
; PRIOR FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: hIFNB mature sequence
US-10-609-296-2

Query Match          94.6%; Score 813; DB 15; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

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Db 1 MSYNLLGFLQSSNFQCKLLQNLGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITLY 60
Qy 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRVIRNLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRVIRNLTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Maschutzza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-448-667-1

Query Match          94.6%; Score 813; DB 16; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

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Db 1 MSYNLLGFLQSSNFQCKLLQNLGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITLY 60
Qy 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRVIRNLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRVIRNLTGYLRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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; Patent No. US20020155547A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses
; FILE REFERENCE: A064PCTSEQ
; CURRENT APPLICATION NUMBER: US/09/832,659
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/120,237
; PRIOR FILING DATE: 1998-02-16
; PRIOR APPLICATION NUMBER: 60/104,491
; PRIOR FILING DATE: 1998-10-16
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 183
; TYPE: PRT
; ORGANISM: murine
US-09-832-659-4

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Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

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QY      61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db      78 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 137

QY      121 HLKRYIGRILHYLKAKESYSHCAWTIVRVEILRNFYINRLTGYLEN 166
Db      138 HLKRYIGRILHYLKAKESYSHCAWTIVRVEILRNFYINRLTGYLEN 183
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Search completed: May 19, 2004, 15:19:57
Job time : 33.2 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 Seconds
(without alignments)
669.524 Million cell updates/sec

Title: US-09-832-659A-46

Perfect score: 859

Sequence: 1 MSYNLLGLQSSNACAAL.....RVEILRNRYRINLTGYLRN 166

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Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	813	94.6	166	4	US-09-397-992A-7
2	813	94.6	166	4	US-09-569-722A-1
3	813	94.6	166	4	US-09-648-569A-2
4	813	94.6	166	4	US-09-971-843-7
5	813	94.6	166	4	US-09-403-532E-1
6	813	94.6	166	4	US-09-462-941-5
7	813	94.6	166	6	5514567-4
8	813	94.6	187	3	US-09-206-903A-9
9	813	94.6	187	3	US-08-406-030A-30
10	813	94.6	187	3	US-09-202-122-9
11	813	94.6	187	3	US-09-206-935-7
12	813	94.6	187	4	US-09-208-936-7
13	813	94.6	187	4	US-09-487-792-4
14	813	94.6	187	4	US-09-908-594-4
15	813	94.6	187	4	US-09-919-622A-9
16	813	94.6	187	6	5514567-1
17	813	94.6	415	4	US-09-215-212-14
18	811	94.4	166	2	US-08-477-310A-1
19	808	94.1	166	1	US-08-213-448-1
20	808	94.1	166	3	US-08-912-768-1
21	808	94.1	166	3	US-09-569-722A-4
22	808	94.1	166	4	US-09-569-722A-18
23	808	94.1	166	5	PCT-US95-03206-1
24	808	94.1	187	3	US-08-912-768-3
25	806	93.8	166	4	US-09-487-792-21
26	806	93.8	166	4	US-09-908-594-21
27	805	93.7	187	1	US-08-026-758-22

28	804	93.6	166	4	US-09-331-260-2	Sequence 2, Appli
29	803	93.5	166	4	US-09-569-722A-5	Sequence 5, Appli
30	796	92.7	187	6	5326859-1	Patent No. 5326859
31	794	92.4	166	4	US-09-569-722A-13	Sequence 13, Appl
32	794	92.4	166	4	US-09-569-722A-19	Sequence 19, Appl
33	789	91.9	166	4	US-09-569-722A-8	Sequence 8, Appli
34	789	91.9	166	4	US-09-569-722A-16	Sequence 16, Appli
35	787	91.6	166	4	US-09-569-722A-6	Sequence 6, Appli
36	786	91.5	166	4	US-09-569-722A-24	Sequence 24, Appl
37	784	91.3	166	4	US-09-569-722A-14	Sequence 14, Appl
38	783	91.2	166	4	US-09-569-722A-7	Sequence 7, Appli
39	783	91.2	166	4	US-09-569-722A-12	Sequence 12, Appl
40	783	91.2	166	4	US-09-569-722A-17	Sequence 17, Appl
41	782	91.0	166	4	US-09-569-722A-81	Sequence 22, Appl
42	781	90.9	166	4	US-09-569-722A-15	Sequence 15, Appl
43	778	90.6	166	4	US-09-569-722A-20	Sequence 20, Appl
44	777	90.5	166	4	US-09-569-722A-11	Sequence 11, Appl
45	776	90.3	166	4	US-09-569-722A-23	Sequence 23, Appl

ALIGNMENTS

RESULT 1

US-09-397-992A-7
; Sequence 7, Application US/09397992A
; Patent No. 6329175
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kingsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46
; CURRENT APPLICATION NUMBER: US/09/397,992A
; CURRENT FILING DATE: 1999-09-16
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-397-992A-7

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Best Local Similarity 95.2%; Pred. No. 5.5e-81;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

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Db	1	MSYNLLGLQSSNFCQKLLWQLNGRLEYCYLKDNRNFDIPEIKLOQFOKEDAAITY	60
Qy	61	EMLQNIFAIFQDSSSTGTWNETIVENLLANNVHQNHLKTVLEEKLEKEDFTRGALMSSL	120
Db	61	EMLQNIFAIFQDSSSTGTWNETIVENLLANNVHQNHLKTVLEEKLEKEDFTRGALMSSL	120
Qy	121	HLKRYVGRILHYLKAKESYSHCAWTIVRVEILRNRYRINLTGYLRN	166
Db	121	HLKRYVGRILHYLKAKESYSHCAWTIVRVEILRNRYRINLTGYLRN	166

RESULT 2

US-09-569-722A-1
; Sequence 1, Application US/09569722A
; Patent No. 6514729
; GENERAL INFORMATION:
; APPLICANT: Bentzien, Joerg M

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; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY
; FILE REFERENCE: A-68059-1/RTT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/569,722A
; CURRENT FILING DATE: 2000-05-11
; PRIOR APPLICATION NUMBER: US 60/133,785
; PRIOR FILING DATE: 1999-05-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-569-722A-1

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Query Match 94.6%; Score 813; DB 4; Length 166;
Best Local Similarity 95.2%; Pred. No. 5.5e-81;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

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Db		
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Qy		
61	EMLQNTFAIPRODSSTGNMTIVENLANYHQINHLKTVLBEKPEKEDFTGALMSSL	120
Db		
121	HLKRYGRILHLKAKESHCAWTVRVEILRNFYRNLTGYLRN	166
Qy		
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Db		

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RESULT 3
US-09-648-569A-2
; Sequence 2, Application US/09648569A
; Patent No. 6531122
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen, APS
; TITLE OF INVENTION: Interferon-Beta
; FILE REFERENCE: 0202us810
; CURRENT APPLICATION NUMBER: US/09/6
; CURRENT FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-648-569A-2

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Query Match 94.6%; Score 813; DB 4; Length 166;
Best Local Similarity 95.2%; Pred. No. 5.5e-81;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy	1	MSYLLGFQORSNACAAALLAALNGRLEYCLKORMNFDIPEETKIQLOQKQKDAALTY	60
Db	1	MSYLLGFQORSNFCCKQLWQLNGRLEYCLKORMNFDIPEETKIQLOQKQKDAALTY	60
Qy	61	EMLQNTFAIFRQDSSTGNNTIIVENLANYVYHINHLKTVLEKLEKEDFTRGALMSSL	120
Db	61	EMLQNTFAIFRQDSSTGNNTIIVENLANYVYHINHLKTVLEKLEKEDFTRGALMSSL	120

Qy 121 HLKRYGRILHYLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
|||
Db 121 HLKRYGRILHYLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 4
US-09-971-843-7
; Sequence 7, Application US/09971843
; Patent No. 6544505
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.

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? APPLICANT: Grant, Francis J.
? APPLICANT: Rixon, Mark W.
? APPLICANT: Kindsvogel, Wayne
? TITLE OF INVENTION: Interferon-epsilon
? FILE REFERENCE: 98-4601
? CURRENT APPLICATION NUMBER: US/09/971,843
? CURRENT FILING DATE: 2001-10-04
? PRIOR APPLICATION NUMBER: 60/101,012
? PRIOR FILING DATE: 1998-09-18
? PRIOR APPLICATION NUMBER: 60/118,578
? PRIOR FILING DATE: 1999-02-05
? PRIOR APPLICATION NUMBER: 60/142,765
? PRIOR FILING DATE: 1999-07-08
? PRIOR APPLICATION NUMBER: 09/397,992
? PRIOR FILING DATE: 1999-09-16
? NUMBER OF SEQ ID NOS: 33
? SEQUENCE: FastSEQ for Windows Version 3.0
? SEQ ID NO 7
? LENGTH: 166
? TYPE: PRT
? ORGANISM: Homo sapiens
? US-09-971-843-7

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Query Match          94.6%; Score 813; DB 4; Length 166;
Best Local Similarity 95.2%; Pred. No. 5.5e-81;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

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Db	1	MSVNLGFLQRSNNAACAAALLAANGRLREYCLKQRMNFDIPEETKQIQOQKEDAAUTII	60
Qy	61	EMLONIFAI FRODSSTGNETI VENL LANYHOI N H L K T V L E B K L E K E D P T R G A L M S S L	120
Db	61	EMLONIFAI FRODSSTGNETI VENL LANYHOI N H L K T V L E B K L E K E D P T R G L M S S L	120
Qy	121	HLKRYVGRILHLKAKESHCAMTIVRVEILRNFRNRLTGYURN	166
Db	121	HLKRYVGRILHLKAKESHCAMTIVRVEILRNFRNRLTGYURN	166

RESULT 5

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US-09-403-532E-1
; Sequence 1, Application US/09403532E
; Patent No. 6572853
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/09/403,532E
; CURRENT FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-403-532E-1

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Query Match 94.6%; Score 813; DB 4; Length 166;
Best Local Similarity 95.2%; Pred. No. 5.5e-81;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 1 MSYNLLGFTIQRSSNAACAALLAALNGRLEYCLKDRWNFDIPEIKQLQOOFQKEDAALTIY 60

Dp 1 MSYNLLGFTIQRSSNFQCKLLWOLNGRLEYCLKDRWNFDIPEIKQLQOOFQKEDAALTIY 60

Qy	61	EWLONIPAF	FRODS	SSTG	WNETI	VENLL	ANYH	QIHN	HLKTV	BEKLE	EKSD	TRGAL	MSL	120
Db	61	EWLONIPAF	FRODS	SSTG	WNETI	VENLL	ANYH	QIHN	HLKTV	BEKLE	EKSD	TRGAL	MSL	120
Qy	121	HLKRYGRI	LHYL	KAKEY	SHCAW	TIVR	VEIL	RNFY	RNLRT	GLRN				156
Db	121	HLKRYGRI	LHYL	KAKEY	SHCAW	TIVR	VEIL	RNFY	RNLRT	GLRN				156

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RESULT 6
US-09-462-941-5
; Sequence 5, Application US/09452941
; Patent No. 6608183
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Boldor Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PVS
; CURRENT APPLICATION NUMBER: US/09/462,941
; CURRENT FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-462-941-5

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Query Match	94.6%	Score 813;	DB 4;	Length 166;
Best Local Similarity	95.2%;	Pred. No. 5.5e-81;		
Matches 158;	Conservative 0;	Mismatches 8;	Indels 0;	Gaps 0;
Qy	1	MSYNLLGFLQSSNWAACAAALLAALNGLEVCLKDRMNFDP	PEETKQIQQFKQKDAALTIY	60
Db	1	MSYNLLGFLQSSNWFQCKLLQWNGLEVCLKDRMNFDP	PEETKQIQQFKQKDAALTIY	60
Qy	61	EMLCNQIPAIQFQSSSTGWNETIVENLLANYHQINHLKTVLBEKLEKEPFTRGALMSSL	120	
Db	61	EMLCNQIPAIQFQSSSTGWNETIVENLLANYHQINHLKTVLBEKLEKEPFTRGALMSSL	120	
Qy	121	HLKRYGRIILHYIKAKEYSHCAWTIVRVEILRNPFYINRLTGYLRN	166	
Db	121	HLKRYGRIILHYIKAKEYSHCAWTIVRVEILRNPFYINRLTGYLRN	166	

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RESULT 7
5514567-4
;PATENT NO. 5514567
;APPLICANT: SUGANO, HARUO;MURAMATSU, MASAMI;TANIGUCHI,
;TADATSUGU
;TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID
;NUMBER OF SEQUENCES: 5
;CURRENT APPLICATION DATA:
;APPLICATION NUMBER: US/08/400,179
;FILING DATE: 06-MAR-1995
;PRIOR APPLICATION DATA:
;APPLICATION NUMBER: 389,922
;FILING DATE: 18-JUN-1982
;APPLICATION NUMBER: 201,359
;FILING DATE: 27-OCT-1980
;SEQ ID NO:4
;LENGTH: 166
5514567-4

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Query Match      94.6%, Score 813, DB 6; Length 166;
Best Local Similarity 95.2%; Pred. No. 5.5e-81;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGLFLORSSNAACAALLAANGLEVLCIKDRMNFDPETIKQLQPFCKEDAALTY 60
Db 1 MSYNLLGLFLORSSNFOCKLLWOLNGLEVLCIKDRMNFDPETIKQLQPFCKEDAALTY 60

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Cy	61	EMLQNI	PAIF	FRQDS	SSTGWN	ETI	VEN	L	NY	Q	I	N	H	K	T	V	L	E	K	E	D	P	T	G	A	L	M	S	S	120	
Db	61	EMLQNI	PAIF	FRQDS	SSTGWN	ETI	VEN	L	NY	Q	I	N	H	K	T	V	L	E	K	E	D	P	T	G	A	L	M	S	S	120	
Qy	121	HKRYVY	GRIL	HYL	K	A	K	E	S	H	C	A	M	T	I	V	R	V	E	I	R	N	F	I	R	N	L	T	G	Y	166
Db	121	HKRYVY	GRIL	HYL	K	A	K	E	S	H	C	A	M	T	I	V	R	V	E	I	R	N	F	I	R	N	L	T	G	Y	166

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RESULT 8
US-09-206-903A-9
; Sequence 9, Application US/09206903A
; Patent No. 6200780
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul J.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: P1224-2R1
; CURRENT APPLICATION NUMBER: US/09/206.903A
; PRIOR FILING DATE: 1998-12-07
; PRIOR APPLICATION NUMBER: US 60/106,463
; PRIOR FILING DATE: 1998-10-30
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-903A-9

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	Query Match	94.8%	Score 813,	DB 3;	Length 187;
	Best Local Similarity	95.3%;	Pred. No. 6.5e-81;		
	Matches 158;	Conservative	0;	Mismatches 8;	Indels 0; Gaps 0;
Qy	1	MSYNLGIFQRSNNAACALLAALNGRLEVCYLDKRWNFDP	PEIKIQLOQFQKEDAA	TIY	60
Db	22	MSYNLGIFQRSNFOCKLLWOLNGRLEVCYLDKRWNFDP	PEIKIQLOQFQKEDAA	TIY	81
Qy	61	EMLQNIFAIPRODSSTGWNETTIVNLLANVYHQINHLKTVL	BEKLEKEKEDFTRGAL	MSSL	120
Db	82	EMLQNIFAIPRODSSTGWNETTIVNLLANVYHQINHLKTVL	BEKLEKEKEDFTRGAL	MSSL	141
Qy	121	HLKRYYGRIHLHYKAEYSHCANTI	VRVEILRNFYINRLTGY	LRN	166
Db	142	HLKRYYGRIIHYKAEYSHCANTI	VRVEILRNFYINRLTGY	LRN	187

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RESULT 9
US-08-406-030A-30
; Sequence 30, Application US/08406030A
; Patent No. 6270989
; GENERAL INFORMATION:
; APPLICANT: Treco, Douglas A.
; APPLICANT: Heartlein, Michael W.
; APPLICANT: Hauge, Brian M.
; APPLICANT: Selgen, Richard F.
; TITLE OF INVENTION: Protein Production and Delivery
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSES: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: US 08/406,030A
; FILING DATE: 17-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/243,391
; FILING DATE: 13-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/985,596
; FILING DATE: 03-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/911,533
; FILING DATE: 10-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,840
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,188
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/11704
; FILING DATE: 02-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/09627
; FILING DATE: 05-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: TK95-01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 187 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-406-030A-30

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Query Match          94.6%; Score 813; DB 3; Length 187;
Best Local Similarity 95.2%; Pred. No. 6.5e-81;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACALLAALNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 81
QY 61 EMLQNIPAFPRQSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIPAFPRQSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 187

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RESULT 10
US-09-202-122-9
; Sequence 9, Application US/09202122
; Patent No. 629869
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P12242 (filed)
; CURRENT APPLICATION NUMBER: US/09/202,122
; CURRENT FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9

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; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-202-122-9

Query Match          94.6%; Score 813; DB 3; Length 187;
Best Local Similarity 95.2%; Pred. No. 6.5e-81;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACALLAALNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 81
QY 61 EMLQNIPAFPRQSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIPAFPRQSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 187

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RESULT 11
US-09-206-935-7
; Sequence 7, Application US/09206935
; Patent No. 629877
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: 11669.50US05
; CURRENT APPLICATION NUMBER: US/09/206,935
; CURRENT FILING DATE: 1998-12-07
; EARLIER APPLICATION NUMBER: 60/084,045
; EARLIER FILING DATE: 1998-05-04
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-206-935-7

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Query Match          94.6%; Score 813; DB 3; Length 187;
Best Local Similarity 95.2%; Pred. No. 6.5e-81;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACALLAALNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 81
QY 61 EMLQNIPAFPRQSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIPAFPRQSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 187

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RESULT 12
US-09-206-936-7
; Sequence 7, Application US/09206936A
; Patent No. 6300475
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: No. 6300475el Interferon
; FILE REFERENCE: E1224r1
; CURRENT APPLICATION NUMBER: US/09/206,936A
; CURRENT FILING DATE: 1998-12-07

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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-936-7

Query Match          94.6%; Score 813; DB 4; Length 187;
Best Local Similarity 95.2%; Pred. No. 6.5e-81;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
Db 22 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 81

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 141

QY 121 HLKRYGRIHLHYLKAKESHCAWTIVRVEILNRYFNRLTGYLRN 166
Db 142 HLKRYGRIHLHYLKAKESHCAWTIVRVEILNRYFNRLTGYLRN 187

RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2
; CURRENT APPLICATION NUMBER: US/09/487,792
; EARLIER FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-487-792-4

Query Match          94.6%; Score 813; DB 4; Length 187;
Best Local Similarity 95.2%; Pred. No. 6.5e-81;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
Db 22 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 81

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 141

QY 121 HLKRYGRIHLHYLKAKESHCAWTIVRVEILNRYFNRLTGYLRN 166
Db 142 HLKRYGRIHLHYLKAKESHCAWTIVRVEILNRYFNRLTGYLRN 187

RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lafleur, et al.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2
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; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; APPLICATION NUMBER: 60/292,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-908-594-4

Query Match          94.6%; Score 813; DB 4; Length 187;
Best Local Similarity 95.2%; Pred. No. 6.5e-81;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
Db 22 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 81

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 141

QY 121 HLKRYGRIHLHYLKAKESHCAWTIVRVEILNRYFNRLTGYLRN 166
Db 142 HLKRYGRIHLHYLKAKESHCAWTIVRVEILNRYFNRLTGYLRN 187

RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-622A-9

Query Match          94.6%; Score 813; DB 4; Length 187;
Best Local Similarity 95.2%; Pred. No. 6.5e-81;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
Db 22 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 81
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Db	82	EMLQNTFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL	141
QY	121	HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILNENFYRINELTGYLEN	166
Db	142	HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILNENFYRINELTGYLEN	187

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Job time : 12.8 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds
(without alignments)
1391.307 Million cell updates/sec

Title: US-09-832-659A-45

Perfect score: 867

Sequence: 1 MAYAALGALQASSNFQCKL.....RVEILNFYRINLTGYLRN 166

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Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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Database : Published Applications AA:*

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- 2: /cgn2_6/ptodata/2/pubaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubaa/US06_PUBCOMB.pep.*
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- 10: /cgn2_6/ptodata/2/pubaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/2/pubaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubaa/US10_NEW_PUB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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5	829	95.6	166	14	US-09-832-658-24
6	829	95.6	166	14	US-09-832-658-24
7	829	95.6	166	14	US-09-832-658-24
8	829	95.6	166	14	US-09-832-658-24
9	829	95.6	166	14	US-09-832-658-24
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16	829	95.6	183	10	US-09-832-658-24	Sequence 2, Appli
17	829	95.6	186	12	US-10-449-831A-146	Sequence 146, App
18	829	95.6	187	9	US-09-788-552-1	Sequence 1, Appli
19	829	95.6	187	9	US-09-919-622A-9	Sequence 9, Appli
20	829	95.6	187	12	US-10-411-037-6	Sequence 6, Appli
21	829	95.6	187	12	US-09-881-050-17	Sequence 17, Appli
22	829	95.6	187	12	US-10-411-026-6	Sequence 6, Appli
23	829	95.6	187	13	US-10-004-201-2	Sequence 2, Appli
24	829	95.6	187	14	US-10-096-373-2	Sequence 2, Appli
25	829	95.6	187	14	US-10-418-038-9	Sequence 9, Appli
26	829	95.6	187	16	US-10-410-962-6	Sequence 6, Appli
27	829	95.6	187	16	US-10-411-049-6	Sequence 6, Appli
28	829	95.6	199	12	US-09-766-920B-11	Sequence 11, Appli
29	829	95.6	234	12	US-10-449-831A-192	Sequence 192, App
30	829	95.6	399	9	US-09-832-659-2	Sequence 2, Appli
31	827	95.4	166	12	US-10-035-420-1	Sequence 1, Appli
32	827	95.4	166	12	US-10-010-448-1	Sequence 1, Appli
33	826	95.3	187	9	US-09-927-850-7	Sequence 7, Appli
34	822	94.8	166	9	US-09-788-552-2	Sequence 2, Appli
35	820	94.6	166	10	US-09-832-658-25	Sequence 25, Appli
36	820	94.6	418	9	US-09-832-659-42	Sequence 42, Appli
37	820	94.6	423	9	US-09-832-659-44	Sequence 44, Appli
38	819	94.5	166	14	US-10-246-932-2	Sequence 2, Appli
39	818	94.3	166	15	US-10-168-956A-1	Sequence 1, Appli
40	817	94.2	166	12	US-10-035-420-2	Sequence 2, Appli
41	817	94.2	166	12	US-10-010-448-2	Sequence 2, Appli
42	794	91.6	166	14	US-10-449-456-26	Sequence 26, Appli
43	794	91.6	166	16	US-10-448-667-36	Sequence 26, Appli
44	789	91.0	166	14	US-10-449-456-23	Sequence 23, Appli
45	789	91.0	166	16	US-10-448-667-23	Sequence 23, Appli

ALIGNMENTS

RESULT 1

US-09-832-658-24
; Sequence 24, Application US/09832658
; Publication No. US20030021765A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; APPLICANT: Pepinsky, Blake
; APPLICANT: Runkel, Laura
; APPLICANT: Brickelmaier, Margot
; APPLICANT: Whitty, Adrian
; APPLICANT: Hochman, Paula
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a
; TITLE OF INVENTION: and Uses
; FILE REFERENCE: A065PCT
; CURRENT APPLICATION NUMBER: US/09/832,658
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/104,572
; PRIOR FILING DATE: 1998-10-16
; PRIOR APPLICATION NUMBER: 60/120,161
; PRIOR FILING DATE: 1999-02-16
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 166
; TYPE: PRT
; ORGANISM: human
US-09-832-658-24

Query Match 97.1%; Score 842; DB 10; Length 166;
Best Local Similarity 97.0%; Pred. No. 3.7e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY	1	MAYAALGALQASSNFQCKLWOLNGRLEYCLKORMNFDPFEEIKLOFOFKEDAAITY 60	
DB	1	MSYNLGLFQSSNFQCKLWOLNGRLEYCLKORMNFDPFEEIKLOFOFKEDAAITY 60	
QY	61	EMLQNFIFAFRODSSSTGWNTEIVENLIANYHQINHLKTVLEEKLEKEDFTFGALMSSL 120	

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Db 61 EMLQNIFAIPRODSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match 95.6%; Score 829; DB 10; Length 166;
Best Local Similarity 95.8%; Pred. No. 8.2e-78;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAYAALGALQASNFQCKLLWQNGRLEYCLKDRNFDIPEIKQLQOFQKEDAALTYI 60
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRNFDIPEIKQLQOFQKEDAALTYI 60
QY 61 EMLQNIFAIPRODSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Subhirdas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT

QY 1 MAYAALGALQASNFQCKLLWQNGRLEYCLKDRNFDIPEIKQLQOFQKEDAALTYI 60
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRNFDIPEIKQLQOFQKEDAALTYI 60
QY 61 EMLQNIFAIPRODSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorraine
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PFI8399.002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match 95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 8.2e-78;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAYAALGALQASNFQCKLLWQNGRLEYCLKDRNFDIPEIKQLQOFQKEDAALTYI 60
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRNFDIPEIKQLQOFQKEDAALTYI 60
QY 61 EMLQNIFAIPRODSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTRUP, Joern
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30
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; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 8.2e-78;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAYAALGALQASSNFQCKLLWLNGLRLEYCLKDRNFDIPEIKLOQFOKEDAAITY 60
   |||
Db 1 MSYNLLGFQRSSNFQCKLLWLNGLRLEYCLKDRNFDIPEIKLOQFOKEDAAITY 60
   |||

QY 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||
Db 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
   |||
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
   |||

RESULT 6
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 8.2e-78;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAYAALGALQASSNFQCKLLWLNGLRLEYCLKDRNFDIPEIKLOQFOKEDAAITY 60
   |||
Db 1 MSYNLLGFQRSSNFQCKLLWLNGLRLEYCLKDRNFDIPEIKLOQFOKEDAAITY 60
   |||

QY 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||
Db 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
   |||
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
   |||

RESULT 7
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US2003016685A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 8.2e-78;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAYAALGALQASSNFQCKLLWLNGLRLEYCLKDRNFDIPEIKLOQFOKEDAAITY 60
   |||
Db 1 MSYNLLGFQRSSNFQCKLLWLNGLRLEYCLKDRNFDIPEIKLOQFOKEDAAITY 60
   |||

QY 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||
Db 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
   |||
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
   |||

RESULT 8
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalsgard
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORNSEN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
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; NAME/KEY: CHAIN
; LOCATION: (1)....(166)
; OTHER INFORMATION: HIFNB mature sequence
US-10-084-706-2

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 8.2e-78;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAYAALGALQASNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFQKEDAAITY 60
   |||
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFQKEDAAITY 60
   |||

QY 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||
Db 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 9
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US20030171284A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-FUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; CURRENT FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 8.2e-78;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAYAALGALQASNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFQKEDAAITY 60
   |||
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFQKEDAAITY 60
   |||

QY 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||
Db 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 10
US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2002-12-19
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; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 8.2e-78;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAYAALGALQASNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFQKEDAAITY 60
   |||
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFQKEDAAITY 60
   |||

QY 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||
Db 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 11
US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 8.2e-78;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAYAALGALQASNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFQKEDAAITY 60
   |||
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFQKEDAAITY 60
   |||

QY 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||
Db 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 12
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US20030186886A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewandter
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
```

```

; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: h1PNB mature sequence
US-10-609-296-2

Query Match          95.6%; Score 829; DB 15; Length 166;
Best Local Similarity 95.8%; Pred. No. 8.2e-78;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MAYAALGALQASSNFQCKLLWQLNGRLLEYCLKDRNFDIPEIKOLOQPKEDAAITY 60
Db 1 MSYNLLGLQRSSNFQCKLLWQLNGRLLEYCLKDRNFDIPEIKOLOQPKEDAAITY 60

Qy 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQINHLKTVLBEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQINHLKTVLBEKLEKEDFTRGALMSSL 120

Qy 121 HLKRYGRIHLYLKAKESYHCANTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRIHLYLKAKESYHCANTIVRVEILRNFYINRLTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication NO. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutzka, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-448-667-1

Query Match          95.6%; Score 829; DB 16; Length 166;
Best Local Similarity 95.8%; Pred. No. 8.2e-78;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MAYAALGALQASSNFQCKLLWQLNGRLLEYCLKDRNFDIPEIKOLOQPKEDAAITY 60
Db 1 MSYNLLGLQRSSNFQCKLLWQLNGRLLEYCLKDRNFDIPEIKOLOQPKEDAAITY 60

Qy 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQINHLKTVLBEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQINHLKTVLBEKLEKEDFTRGALMSSL 120

Qy 121 HLKRYGRIHLYLKAKESYHCANTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRIHLYLKAKESYHCANTIVRVEILRNFYINRLTGYLRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659

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; Patent No. US20020155547A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses
; FILE REFERENCE: A064PCTSEQ
; CURRENT APPLICATION NUMBER: US/09/832,659
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/120,237
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/104,491
; PRIOR FILING DATE: 1998-10-16
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 183
; TYPE: PRT
; ORGANISM: murine
US-09-832-659-4

Query Match 95.8%; Score 829; DB 9; Length 183;
Best Local Similarity 95.8%; Pred. No. 9.4e-78;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;
QY 1 MAYAALGALQASNFQCKLLWOLNGRLEYCLKDRMNFDPPEIKOLOQOFQKEDAAITY 60
Db :|||||
QY 18 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRMNFDPPEIKOLOQOFQKEDAAITY 77
Db :|||||
QY 61 EMLQNIFAIHQDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db :|||||
QY 78 EMLQNIFAIHQDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 137
Db :|||||
QY 121 HLKRYGRILHLKAKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db :|||||
QY 138 HLKRYGRILHLKAKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 183
Db :|||||

Search completed: May 19, 2004, 15:19:57
Job time : 34.2 secs

Result No.	Query		DB	ID	Description
	Score	Match Length			
1	839	95-6	166	4	US-09-397-992A-7
2	839	95-6	166	4	US-09-569-722A-1
3	839	95-6	166	4	US-09-569-722A-2
4	839	95-6	166	4	US-09-648-569A-2
5	839	95-6	166	4	US-09-971-843-7
6	839	95-6	166	4	US-09-403-533E-1
7	839	95-6	166	4	US-09-462-941-5
8	839	95-6	187	3	US-09-206-903A-9
9	839	95-6	187	3	US-08-406-030A-30
10	839	95-6	187	3	US-09-202-122-9
11	839	95-6	187	3	US-09-206-935-7
12	839	95-6	187	4	US-09-206-936-7
13	839	95-6	187	4	US-09-487-792-4
14	839	95-6	187	4	US-09-508-594-4
15	839	95-6	187	4	US-09-519-622A-9
16	839	95-6	187	6	5514567-1
17	839	95-6	415	4	US-09-215-213-14
18	839	95-6	415	4	US-08-477-310A-1
19	839	95-0	166	3	US-08-213-448-1
20	839	95-0	166	3	US-08-912-768-1
21	839	95-0	166	4	US-09-569-722A-4
22	839	95-0	166	4	US-09-569-722A-18
23	839	95-0	166	5	PCN-US95-03206-1
24	839	95-0	187	3	US-08-912-768-3
25	839	94-8	166	4	US-09-487-792-21
26	839	94-8	166	4	US-09-508-594-21
27	839	94-7	187	1	US-08-026-758-22

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; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46DL
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match          95.6%; Score 829; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 1.3e-82;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY      1 MAYAALGALQASSNFQCKLLWQNGLEYLEYCLKDRMNFDPBEIKOLQOFQKEDAAITTY 60
      :|:
Db      1 MSYNLLGFLRSSNFQCKLLWQNGRLEYCLKDRMNFDPBEIKOLQOFQKEDAAITTY 60
      :|:
QY      61 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQINHLKTVLBEKLEKEDFTRGALMSSL 120
      :|:
Db      61 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQINHLKTVLBEKLEKEDFTRGALMSSL 120
      :|:
QY      121 HLKRYGRIHLKAKSYSHCAWTVRVEILRNPFYINRLTYGLRN 166
      :|:
Db      121 HLKRYGRIHLKAKSYSHCAWTVRVEILRNPFYINRLTYGLRN 166
      :|:

RESULT 5
US-09-403-532E-1
; Sequence 1, Application US/09403532E
; Patent No. 6572853
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Preseusius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/09/403,532E
; CURRENT FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-403-532E-1

Query Match          95.6%; Score 829; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 1.3e-82;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY      1 MAYAALGALQASSNFQCKLLWQNGLEYLEYCLKDRMNFDPBEIKOLQOFQKEDAAITTY 60
      :|:
Db      1 MSYNLLGFLRSSNFQCKLLWQNGRLEYCLKDRMNFDPBEIKOLQOFQKEDAAITTY 60
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QY 61 EMLQNI FAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNI FAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 6

US-09-462-941-5
; Sequence 5, Application US/09462941
; Patent No. 6608183
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N.
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/09/462,941
; CURRENT FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-462-941-5

Query Match 95.6%; Score 829; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 1.3e-82;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;
QY 1 MAYAALGALQASSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
QY 61 EMLQNI FAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNI FAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 7

5514567-4
; Patent No. 5514567
; APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI,
; TADATSUGU
; TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID
; NUMBER OF SEQUENCES: 5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/400,179
; FILING DATE: 06-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 389,922
; FILING DATE: 18-JUN-1982
; APPLICATION NUMBER: 201,359
; FILING DATE: 27-OCT-1980
; SEQ ID NO: 4
; LENGTH: 166
5514567-4

Query Match 95.6%; Score 829; DB 6; Length 166;
Best Local Similarity 95.8%; Pred. No. 1.3e-82;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;
QY 1 MAYAALGALQASSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60

QY 61 EMLQNI FAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNI FAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 8

US-09-206-903A-9
; Sequence 9, Application US/09206903A
; Patent No. 6200780
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul J.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: P1224-2R1
; CURRENT APPLICATION NUMBER: US/09/206,903A
; CURRENT FILING DATE: 1998-12-07
; PRIOR APPLICATION NUMBER: US 60/106,463
; PRIOR FILING DATE: 1998-10-30
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-903A-9

Query Match 95.6%; Score 829; DB 3; Length 187;
Best Local Similarity 95.8%; Pred. No. 1.5e-82;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;
QY 1 MAYAALGALQASSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 81
QY 61 EMLQNI FAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNI FAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
DB 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 187

RESULT 9

US-08-406-030A-30
; Sequence 30, Application US/08406030A
; Patent No. 6270989
; GENERAL INFORMATION:
; APPLICANT: Treco, Douglas A.
; APPLICANT: Heartlein, Michael W.
; APPLICANT: Hauge, Brian M.
; APPLICANT: Selden, Richard F.
; TITLE OF INVENTION: Protein Production and Delivery
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:

; LENGTH: 187
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-202-122-9

 Query Match 95.6%; Score 829; DB 3; Length 187;
 Best Local Similarity 95.8%; Pred. No. 1.5e-82;
 Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

 QY 1 MAYAALGALQASNFQCKLLWOLNGRLEYCLKDRNMFDPBBIKOLQOPQKEDAAITTY 60
 Db 22 MSYNLLGFLQRSSNFQCKLLWOLNGRLEYCLKDRNMFDPBBIKOLQOPQKEDAAITTY 81

 QY 61 EMLQNTFAIFPRODSSSTGWNTEIVENLLANVYHOINHLKTVLEEKLEKEDFTFGALMSSL 120
 Db 82 EMLQNTFAIFPRODSSSTGWNTEIVENLLANVYHOINHLKTVLEEKLEKEDFTFGALMSSL 141

 QY 121 HLKRYVGRILHYLKKEYSHCAWTIVRVEILRNFYFINLTYGLRN 166
 Db 142 HLKRYVGRILHYLKKEYSHCAWTIVRVEILRNFYFINLTYGLRN 187

 RESULT 11
 US-09-206-935-7
 ; Sequence 7, Application US/09206935
 ; Patent No. 6299877
 ; GENERAL INFORMATION:
 ; APPLICANT: Chen, Jian
 ; APPLICANT: Godowski, Paul
 ; APPLICANT: Wood, William I.
 ; APPLICANT: Zhang, Dong-Xiao
 ; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
 ; FILE REFERENCE: 11669.50US05
 ; CURRENT APPLICATION NUMBER: US/09/206,935
 ; CURRENT FILING DATE: 1998-12-07
 ; EARLIER APPLICATION NUMBER: 60/084,045
 ; EARLIER FILING DATE: 1998-05-04
 ; NUMBER OF SEQ ID NOS: 24
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 7
 ; LENGTH: 187
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-206-935-7

 Query Match 95.6%; Score 829; DB 3; Length 187;
 Best Local Similarity 95.8%; Pred. No. 1.5e-82;
 Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

 QY 1 MAYAALGALQASNFQCKLLWOLNGRLEYCLKDRNMFDPBBIKOLQOPQKEDAAITTY 60
 Db 22 MSYNLLGFLQRSSNFQCKLLWOLNGRLEYCLKDRNMFDPBBIKOLQOPQKEDAAITTY 81

 QY 61 EMLQNTFAIFPRODSSSTGWNTEIVENLLANVYHOINHLKTVLEEKLEKEDFTFGALMSSL 120
 Db 82 EMLQNTFAIFPRODSSSTGWNTEIVENLLANVYHOINHLKTVLEEKLEKEDFTFGALMSSL 141

 QY 121 HLKRYVGRILHYLKKEYSHCAWTIVRVEILRNFYFINLTYGLRN 166
 Db 142 HLKRYVGRILHYLKKEYSHCAWTIVRVEILRNFYFINLTYGLRN 187

 RESULT 12
 US-09-206-936-7
 ; Sequence 7, Application US/09206936A
 ; Patent No. 6300475
 ; GENERAL INFORMATION:
 ; APPLICANT: Chen, Jian
 ; APPLICANT: Wood, William I.
 ; TITLE OF INVENTION: NO. 6300475el Inteferon
 ; FILE REFERENCE: P1224R1
 ; CURRENT APPLICATION NUMBER: US/09/206,936A
 ; CURRENT FILING DATE: 1998-12-07

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Query Match      95.6%; Score 829; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 1.5e-82;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;
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QY 61 EMLQIFAIIFRODSSSTGNETIVENLLANYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db |||||
QY 82 EMLQIFAIIFRODSSSTGNETIVENLLANYHQINHLKTVLEKLEKEDFTRGALMSSL 141
Db |||||
QY 121 HLKRYIGRILHYLKAKKEYSHCAWTIVRVEILRNFYINRLTGYLNR 166
Db |||||
QY 142 HLKRYIGRILHYLKAKKEYSHCAWTIVRVEILRNFYINRLTGYLNR 187
Db |||||

Search completed: May 19, 2004, 14:26:08
Job time : 13.8 secs